



## **Iris um Oifig Maoine Intleachtúla na hÉireann** **Journal of the Intellectual Property Office of Ireland**

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**Cill Chainnigh 19 November 2025**

**Uimh. 2555**

### **CLÁR INNSTE**

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**Iris um Oifig Maoine Intleachtúla na hÉireann**  
**Journal of the Intellectual Property Office of Ireland**  
**Cuid I**  
**Paitinní agus Dearachtaí**

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**No. 2555****Wednesday, 19 November, 2025**

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| <p><i>In this Part of the Journal, a reference to a section is to a section of the Patents Act, 1992 unless otherwise stated.</i></p> |
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## **Applications for Patents**

### **From 17/10/2025 to 30/10/2025**

The names of applicants are in alphabetical order. The title of the invention should not be regarded as an exhaustive indication of the subject-matter. The date immediately following the title is that on which the application was filed; in the case of a divisional application, the filing date of the earlier application is added within parentheses. Where the application invokes the Paris Convention, the Convention country and priority date(s) claimed are given in square brackets. Where an application claimed the priority of an earlier application filed at this Office, this information is given within the square brackets. The number is that of the application and should be used for correspondence purposes up to the date of grant of a patent. The letter S preceding the number indicates that the application is for a short-term patent. A new number will be given when a patent is granted and this new number should be quoted in all correspondence subsequent to grant.

|                                                                                                                                                                                                            |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ANA MARIE FOLEY Hybrid Energy Harvesting Module for Wearable Devices 17 October 2025                                                                                                                       | <b>20250445</b>  |
| BRENDAN GINNELLY A METHOD OF, AND A SYSTEM FOR, ENHANCED CAPTURE AND ORGANISATION OF DIGITAL MEDIA 29 October 2025                                                                                         | <b>20250465</b>  |
| COMPOUND LIFE LIMITED Compositions Comprising L-Cysteine and Isomaltulose for Sustained Late-Night Performance 28 October 2025                                                                             | <b>S20250462</b> |
| CREVA INDUSTRIES LIMITED Protective Treatment of Livestock Housing Products 24 October 2025                                                                                                                | <b>20250453</b>  |
| CREVA INDUSTRIES LIMITED Livestock Housing Hygiene Maintenance System 24 October 2025                                                                                                                      | <b>20250454</b>  |
| CURTIN, PATRICK Aerator 24 October 2025                                                                                                                                                                    | <b>20250452</b>  |
| DR PETER CUMPSON Navigation Unit for UAVs that is robust to Electromagnetic Interference 28 October 2025 [United Kingdom-16 October 2025]                                                                  | <b>S20250458</b> |
| DR PETER CUMPSON Drone detection device 28 October 2025 [Australia-13 February 2025]                                                                                                                       | <b>S20250459</b> |
| DR PETER CUMPSON Drone Directed Energy Weapon Detector 28 October 2025 [United Kingdom-04 August 2025]                                                                                                     | <b>S20250460</b> |
| ELECTRIC POWER RESEARCH INSTITUTE, GUANGXI POWER GRID LLC MULTI-TIME SCALE RELIABILITY OPTIMIZATION METHOD AND SYSTEM FOR DISTRIBUTED ENERGY DISTRIBUTION NETWORK 17 October 2025 [China-11 December 2024] | <b>S20250446</b> |
| ELIASSON LIMITED MODUCARE - MODULAR BATHROOM SYSTEM 30 October 2025                                                                                                                                        | <b>S20250467</b> |
| GREGOR MCCULLAGH; CHRISTOPHER KENNY; GEORGE BYRNE Slim Wallet with Compartment Strap-Retainer Features 29 October 2025                                                                                     | <b>S20250466</b> |
| GUANGZHOU MEDICAL UNIVERSITY CYTISINE-POLYPEPTIDE CONJUGATE COMPOUND, PREPARATION METHOD AND APPLICATION THEREOF 27 October 2025                                                                           | <b>S20250457</b> |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| LEONARD WILLEM BASTIAAN VAN DEN BOS Selective BLE-Based Pet Deterrent System 18 October 2025                                                                                     | <b>S20250447</b> |
| LUDONG UNIVERSITY An IoT-based Intelligent Agricultural Soil Moisture and Pest Collaborative Monitoring System 27 October 2025                                                   | <b>S20250456</b> |
| MICHAEL PATRICK EGAN A laryngoscope for ventilatory exchange 29 October 2025                                                                                                     | <b>S20250464</b> |
| MIDLAND STEEL REINFORCEMENT SUPPLIES LIMITED Prefabricated Modular Reinforcement Wall Construction System 28 October 2025                                                        | <b>20250461</b>  |
| NEEMISH PULIMOOTTIL SANTOSH System and Method for Automated Generation of Employee Extrinsic Reward Plans 28 October 2025 [Nigeria-23 October 2025 South Africa-24 October 2025] | <b>S20250463</b> |
| PATRICK Foundational Universal Control System for AI Alignment 20 October 2025                                                                                                   | <b>20250448</b>  |
| PROSIP Edible Straw Containing a Stabilized Clear Whey Protein Solution for Functional Nutrition Delivery. 21 October 2025                                                       | <b>S20250450</b> |
| SHANE WILLIAMS portable leak catching tree 23 October 2025                                                                                                                       | <b>S20250451</b> |
| SHRUTI KHATTAR Unified Travel Operating System for Real-Time Orchestration, Identity Management, and Conditional Settlement 26 October 2025                                      | <b>S20250455</b> |

## **Applications for Patents Under Section 127A**

### **From 08/07/2025 to 08/07/2025**

The names of applicants are in alphabetical order. In the case of joint applicants, each name is given independently. The title of the invention should not be regarded as an exhaustive indication of the subject-matter. The date immediately following the title shall be either the date of the originating PCT filing, where applicable, or the date directed by the Controller. The number is that of the application and should be used for correspondence purposes up to the date of grant of a patent. A new number will be given when a patent is granted, and this new number should be quoted in all correspondence subsequent to grant.

|                                                                                                                                   |                 |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| DALIAN MINZU UNIVERSITY ANTINEOPLASTIC PRODRUG AND ITS PREPARATION METHOD AND APPLICATIONS 08 July 2025 [China-06 September 2024] | <b>20250449</b> |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|

## **Applications Published Under Section 28**

The following applications become open to public inspection as from the date of this issue of the journal unless otherwise specified. The date given is the date of filing of the application or the earliest priority claimed.

|             |                  |                                                                                                                                                               |
|-------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2024</b> | <b>S20240085</b> | DONGGUAN SONGSHANHU CENTRAL HOSPITAL, Rehabilitation exercise device based on cardiovascular patient. 06 February 2024. Int. Cl. (2025.01) <b>A61H 1/00</b> . |
|-------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>20240501</b>  | VERO VERIA CORPORATION, MILLING CUTTER EQUIPMENT FOR ELEVATED FLOOR. 22 March 2024. Int. Cl. (2025.01) <b>B23C 1/00</b> .                                                       |
| <b>S20240766</b> | HUANENG GUANGXI CLEAN ENERGY CO. LTD., Method and Device for Automatically Adjusting Impeller of Wind Turbine Generator. 20 March 2024. Int. Cl. (2025.01) <b>F03D 7/00</b> .   |
| <b>2025</b>      | <b>20250077</b> HORAN & NANGLE FUTURE ROBOTICS LIMITED, A ROBOTIC FOOD VENDING SYSTEM. 08 March 2024. Int. Cl. (2025.01) <b>G07F 11/00; G07F 17/00; G06Q 20/00; B65G 1/00</b> . |

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### Patents Granted Under Section 34

The number of a patent is given in heavy type; the letter S preceding the number indicates a short-term patent. The code numbers following the title of each invention are those of the International Patent Classification. The date of filing the application follows the proprietor's name. The patent application number, which follows the date of application in parenthesis, has been superseded by the patent number. In the case of an application claiming the priority of an earlier application, the name of the country where the earlier application was made and the date of the earlier application are shown in square brackets.

|               |                                                                                                                                                                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>87677</b>  | An improved building system. Int. Cl. (2025.01) <b>E04B 1/00; F16B 1/00; F16B 17/00</b> . LF FASTHOUSE LIMITED 15 October 2020 (20200229) [Ireland-15 October 2019]                                                                                             |
| <b>S87678</b> | A prefabricated UHPC (Ultra-High Performance Concrete) plate arch bridge with a steel pipe reinforced concrete rigid frame. Int. Cl. (2025.01) <b>E01D 4/00</b> . CHONGQING JIAOTONG UNIVERSITY 18 February 2024 (S20240099) [China-29 January 2024]            |
| <b>S87679</b> | MANUFACTURING APPARATUS FOR THIN-WALLED METAL TUBE. Int. Cl. (2025.01) <b>B07C 5/00; B23K 37/00</b> . WUHU SINO-HYDROGEN NEW ENERGY TECHNOLOGY CO.,LTD. 07 May 2024 (S20240258) [China-23 May 2023]                                                             |
| <b>S87680</b> | ABRASIVE PARTICLE POLISHING APPARATUS. Int. Cl. (2025.01) <b>B24B 29/00; B24B 41/00</b> . INNER MONGOLIA UNIVERSITY OF TECHNOLOGY 14 March 2024 (S20240131)                                                                                                     |
| <b>87681</b>  | AN APPARATUS FOR GRADING BALLAST IN TRAIN TRACK LAYING. Int. Cl. (2025.01) <b>E01B 27/00; E02F 3/00</b> . JOHN DIXON PLANT HIRE LIMITED 01 October 2024 (20240608) [European Union Intellectual Property Office(EUIPO)-16 October 2023 Ireland-16 October 2023] |

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## Patents Granted Under European Patent Convention Designating Ireland

The Irish serial number appears first followed, respectively, by the proprietor's name, the date of filing of the application, the filing number and the European Patent Office publication number.

If the specification of the European patent was published in French or German the word 'French' or 'German', as appropriate, will appear as the last item of information. In such cases, it is necessary to file a translation in English and pay the prescribed fee, within six months of the publication date of the grant, in order that the patent may continue to have effect.

### Grants Published in EPO Bulletin No. 43/25, dated 2025-10-22

|         |                                                            |            |         |            |        |
|---------|------------------------------------------------------------|------------|---------|------------|--------|
| 2273654 | Astemo, Ltd.                                               | 29/06/2010 | 2273654 | 10167755.7 |        |
| 2464213 | Syngenta Crop Protection AG                                | 06/08/2010 | 2464213 | 10808453.4 |        |
| 2620220 | Essepi S.N.C. di Schiavon Nicola e Pelizzaro Giovanni E C. | 22/01/2013 | 2620220 | 13152152.8 |        |
| 2678759 | Humanware S.r.l.                                           | 21/02/2012 | 2678759 | 12729707.5 |        |
| 2758104 | Becton, Dickinson and Company                              | 08/06/2012 | 2758104 | 12727572.5 |        |
| 2800993 | e-Vision Smart Optics Inc.                                 | 07/01/2013 | 2800993 | 13717886.9 |        |
| 2807299 | NIKE Innovate C.V.                                         | 24/01/2013 | 2807299 | 13741132.8 |        |
| 2942531 | ZIEHL-ABEGG SE                                             | 24/04/2015 | 2942531 | 15001211.0 | German |
| 2967425 | Beth Israel Deaconess Medical Center                       | 13/03/2014 | 2967425 | 14770586.7 |        |
| 2968088 | Leading Edge Innovations, LLC                              | 14/03/2014 | 2968088 | 14770568.5 |        |
| 2973741 | Merlin Solar Technologies, Inc.                            | 26/02/2014 | 2973741 | 14775966.6 |        |
| 2974737 | Ablynx N.V.                                                | 25/06/2012 | 2974737 | 15179669.5 |        |
| 2979380 | Nokia Solutions and Networks Oy                            | 29/03/2013 | 2979380 | 13880166.7 |        |
| 3015118 | Zobebe España, S.A.                                        | 31/03/2014 | 3015118 | 14818161.3 |        |
| 3017427 | Safran Aircraft Engines                                    | 27/06/2014 | 3017427 | 14749899.2 | French |
| 3043275 | The Boeing Company                                         | 22/12/2015 | 3043275 | 15202206.7 |        |
| 3071158 | Coleman, James E.                                          | 20/11/2014 | 3071158 | 14802413.6 |        |
|         | CUMMINS, Christy                                           |            |         |            |        |
| 3074993 | Smart Start Technology Pty Ltd.                            | 25/11/2014 | 3074993 | 14863807.5 |        |
| 3085209 | Valeo Vision                                               | 19/12/2014 | 3085209 | 14827758.5 | French |
| 3099245 | EDDA Technology, Inc.                                      | 26/01/2015 | 3099245 | 15740624.0 |        |
| 3122388 | S.C. Johnson & Son, Inc.                                   | 18/03/2015 | 3122388 | 15716614.1 |        |
| 3135472 | The Boeing Company                                         | 23/08/2016 | 3135472 | 16185354.4 |        |
| 3138228 | Qualcomm Incorporated                                      | 17/03/2015 | 3138228 | 15718283.3 |        |
| 3154818 | Safran Seats USA LLC                                       | 10/06/2015 | 3154818 | 15795238.3 |        |
| 3176895 | Hamilton Sundstrand Corporation                            | 02/12/2016 | 3176895 | 16201911.1 |        |
| 3197624 | Roseninge Thürco Fam. ApS                                  | 21/09/2015 | 3197624 | 15777869.7 |        |
| 3198154 | Simpson Strong-Tie Company, Inc.                           | 18/09/2015 | 3198154 | 15772159.8 |        |
| 3202229 | Qualcomm Incorporated                                      | 10/09/2015 | 3202229 | 15771343.9 |        |
| 3224412 | Ecolab USA Inc.                                            | 27/10/2015 | 3224412 | 15862741.4 |        |
| 3226919 | Sadovsky Ltd.                                              | 07/12/2015 | 3226919 | 15825971.3 |        |
| 3228622 | Samsung Electronics Co., Ltd.                              | 21/03/2017 | 3228622 | 17162097.4 |        |
| 3229966 | NanoTemper Technologies GmbH                               | 11/12/2015 | 3229966 | 15816700.7 | German |
| 3237553 | Hallingplast AS                                            | 22/12/2015 | 3237553 | 15873714.8 |        |
| 3243314 | Umbra Technologies Ltd.                                    | 05/01/2016 | 3243314 | 16734942.2 |        |
| 3243566 | BASF Corporation                                           | 05/11/2009 | 3243566 | 17166527.6 |        |
| 3244727 | Pioneer Hi-Bred International, Inc.                        | 07/01/2016 | 3244727 | 16737639.1 |        |
| 3247002 | Biosense Webster (Israel) Ltd.                             | 16/05/2017 | 3247002 | 17171218.5 |        |
| 3258223 | F. Hoffmann-La Roche AG                                    | 26/02/2008 | 3258223 | 17179898.6 | German |
| 3258259 | Dionex Softron GmbH                                        | 13/06/2016 | 3258259 | 16174200.2 |        |
| 3260204 | E. Khoury Holding B.V.                                     | 19/06/2014 | 3260204 | 17178670.0 |        |
|         | Virus Free Air B.V.                                        |            |         |            |        |
| 3260978 | VIA Alliance Semiconductor Co., Ltd.                       | 25/11/2016 | 3260978 | 16200743.9 |        |
| 3265966 | Maersk Line A/S                                            | 04/03/2016 | 3265966 | 16709741.9 |        |
| 3269402 | Adeka Corporation                                          | 07/03/2016 | 3269402 | 16761714.1 |        |
|         | Sapporo Medical University                                 |            |         |            |        |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 3297546 | BASIS Medical, LLC                                                   | 20/05/2016 | 3297546 | 16727071.9 |        |
| 3302679 | Elcam Medical Agricultural Cooperative Association Ltd.              | 26/05/2016 | 3302679 | 16799482.1 |        |
| 3304382 | Waters Technologies Corporation                                      | 31/05/2016 | 3304382 | 16804202.6 |        |
| 3306896 | Nokia Technologies Oy                                                | 07/10/2016 | 3306896 | 16306326.6 |        |
| 3328291 | HIP Innovation Technology, LLC                                       | 15/07/2016 | 3328291 | 16831036.5 |        |
| 3329418 | Valeo Schalter und Sensoren GmbH                                     | 01/08/2016 | 3329418 | 16750706.0 | French |
| 3331032 | JingAo Solar Co., Ltd.                                               | 04/12/2017 | 3331032 | 17205128.6 |        |
| 3331202 | Huawei Technologies Co., Ltd.                                        | 15/04/2016 | 3331202 | 16898273.4 |        |
| 3337703 | Ampere SAS                                                           | 12/07/2016 | 3337703 | 16750949.6 | French |
| 3338162 | Intel Corporation                                                    | 19/07/2016 | 3338162 | 16837461.9 |        |
| 3341769 | Surrey Nanosystems Limited                                           | 26/08/2016 | 3341769 | 16777735.8 |        |
| 3345397 | Malikie Innovations Limited                                          | 26/08/2016 | 3345397 | 16840457.2 |        |
| 3351903 | Kubota Corporation                                                   | 09/06/2017 | 3351903 | 17175342.9 |        |
| 3352107 | NIKE Innovate C.V.                                                   | 03/03/2009 | 3352107 | 17206852.0 |        |
| 3357337 | Ecolab USA Inc.                                                      | 20/12/2011 | 3357337 | 18162077.4 |        |
| 3360591 | SANOFI                                                               | 03/06/2015 | 3360591 | 18159742.8 |        |
| 3373908 | Probiotech LLC                                                       | 10/11/2016 | 3373908 | 16865022.4 |        |
| 3387614 | Authentic Vision GmbH                                                | 09/12/2016 | 3387614 | 16816618.9 |        |
| 3389872 | BASF SE                                                              | 07/12/2016 | 3389872 | 16809759.0 |        |
| 3394340 | Kemira Oyj                                                           | 15/12/2016 | 3394340 | 16819589.9 |        |
| 3394527 | Johnson Controls Tyco IP Holdings LLP                                | 21/12/2016 | 3394527 | 16826267.3 |        |
| 3399041 | Korea Research Institute of Chemical Technology                      | 01/02/2018 | 3399041 | 18154635.9 |        |
| 3400233 | Pop Test Oncology LLC                                                | 28/07/2016 | 3400233 | 16833572.7 |        |
| 3400545 | Roku, Inc.                                                           | 05/01/2017 | 3400545 | 17736335.5 |        |
| 3400788 | Robert Bosch GmbH                                                    | 14/03/2016 | 3400788 | 18171393.4 | German |
| 3401246 | Laitram, L.L.C.                                                      | 31/01/2013 | 3401246 | 18181362.7 |        |
| 3402502 | Societe Industrielle Limousine d'Application Biologique              | 12/01/2017 | 3402502 | 17711706.6 | French |
| 3404127 | RTX Corporation                                                      | 08/05/2018 | 3404127 | 18171307.4 |        |
| 3408008 | Carrier Corporation                                                  | 25/01/2017 | 3408008 | 17705213.1 |        |
| 3412052 | Telefonaktiebolaget LM Ericsson (PUBL)                               | 05/02/2016 | 3412052 | 16705826.2 |        |
| 3412531 | Hyundai Motor Company                                                | 30/11/2017 | 3412531 | 17204699.7 |        |
|         | Kia Corporation                                                      |            |         |            |        |
| 3413952 | ACIST Medical Systems, Inc.                                          | 08/02/2017 | 3413952 | 17703434.5 |        |
| 3416207 | Hodogaya Chemical Co., Ltd.                                          | 08/02/2017 | 3416207 | 17750290.3 |        |
| 3418008 | TOYOTA JIDOSHA KABUSHIKI KAISHA                                      | 12/06/2018 | 3418008 | 18177184.1 |        |
| 3423118 | Better Vision Solutions LLC                                          | 28/02/2017 | 3423118 | 17710655.6 |        |
| 3426967 | Hexagon Technology AS                                                | 07/03/2017 | 3426967 | 17713519.1 |        |
| 3427181 | Microsoft Technology Licensing, LLC                                  | 28/02/2017 | 3427181 | 17711844.5 |        |
| 3427182 | Microsoft Technology Licensing, LLC                                  | 28/02/2017 | 3427182 | 17715290.7 |        |
| 3430039 | Universitetet I Oslo                                                 | 14/03/2017 | 3430039 | 17717856.3 |        |
| 3430803 | Microsoft Technology Licensing, LLC                                  | 08/03/2017 | 3430803 | 17714584.4 |        |
| 3434727 | Toppa Printing Co., Ltd.                                             | 24/03/2017 | 3434727 | 17770450.9 |        |
| 3434853 | View, Inc.                                                           | 11/12/2012 | 3434853 | 18194665.8 |        |
| 3435262 | Singapore Health Services Pte. Ltd. Nanyang Technological University | 14/03/2011 | 3435262 | 18193483.7 |        |
| 3435401 | THALES                                                               | 10/07/2018 | 3435401 | 18182582.9 | French |
| 3437031 | Shanghai Hanshi Information Technology Co. Ltd.                      | 28/03/2017 | 3437031 | 17776466.9 |        |
| 3439987 | California Innovations Inc.                                          | 06/02/2017 | 3439987 | 17778500.3 |        |
| 3442362 | Philip Morris Products S.A.                                          | 05/04/2017 | 3442362 | 17716649.3 |        |
| 3447683 | Samsung Electronics Co., Ltd.                                        | 27/07/2018 | 3447683 | 18186089.1 |        |
| 3448772 | The Procter & Gamble Company                                         | 03/04/2017 | 3448772 | 17718651.7 |        |
| 3451927 | University Of Virginia Patent Foundation                             | 02/05/2017 | 3451927 | 17793143.3 |        |
| 3452937 | Genome Research Limited                                              | 28/04/2017 | 3452937 | 17720140.7 |        |
| 3453392 | Japanese Foundation For Cancer Research                              | 17/05/2017 | 3453392 | 17799440.7 |        |
| 3469159 | De Denkfabriek BVBA                                                  | 09/06/2017 | 3469159 | 17733750.8 |        |
| 3469358 | Becton, Dickinson and Company                                        | 09/06/2017 | 3469358 | 17731981.1 |        |



|         |                                                                                                          |            |         |            |        |
|---------|----------------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 3470420 | Institute Of Genetics And Developmental Biology, Chinese Academy of Sciences<br>Plant Bioscience Limited | 30/07/2014 | 3470420 | 18193786.3 |        |
| 3470801 | Watgrid, S.A.                                                                                            | 14/06/2017 | 3470801 | 17742854.7 |        |
| 3474288 | Samsung Electronics Co., Ltd.                                                                            | 16/10/2018 | 3474288 | 18200705.4 |        |
| 3475635 | Dometic Sweden AB                                                                                        | 21/08/2017 | 3475635 | 17758842.3 |        |
| 3479058 | PDR-Team GmbH                                                                                            | 19/06/2018 | 3479058 | 18746569.5 | German |
| 3482478 | Robert Bosch GmbH                                                                                        | 11/05/2017 | 3482478 | 17722788.1 | German |
| 3487836 | The Trustees of Columbia University in the City of New York                                              | 20/07/2017 | 3487836 | 17831884.6 |        |
| 3488829 | Coloplast A/S                                                                                            | 17/12/2015 | 3488829 | 18211207.8 |        |
| 3488833 | Zeltiq Aesthetics, Inc.                                                                                  | 21/08/2008 | 3488833 | 18198186.1 |        |
| 3489738 | Sony Group Corporation                                                                                   | 17/05/2017 | 3489738 | 17830683.3 |        |
| 3492174 | exodraft A/S                                                                                             | 03/12/2018 | 3492174 | 18209941.6 |        |
| 3495333 | Sekisui Chemical Co., Ltd.                                                                               | 02/08/2017 | 3495333 | 17837039.1 |        |
| 3502968 | Samsung Electronics Co., Ltd.                                                                            | 21/12/2018 | 3502968 | 18215416.1 |        |
| 3504159 | Sasol (USA) Corporation                                                                                  | 11/08/2017 | 3504159 | 17755622.2 |        |
| 3505056 | Nokia Technologies Oy                                                                                    | 29/12/2017 | 3505056 | 17211016.5 |        |
| 3505573 | Toray Industries, Inc.                                                                                   | 22/08/2017 | 3505573 | 17843563.2 |        |
| 3506881 | Instituto De Biologia Molecular E Celular - IBMC<br>Universidade Do Porto                                | 01/09/2017 | 3506881 | 17793723.2 |        |
| 3507653 | KLA-Tencor Corporation                                                                                   | 02/06/2017 | 3507653 | 17860979.8 |        |
| 3508212 | Keio University<br>Nagoya Institute Of Technology                                                        | 01/09/2017 | 3508212 | 17846710.6 |        |
| 3509102 | CSMC Technologies Fab2 Co., Ltd.                                                                         | 21/08/2017 | 3509102 | 17845275.1 |        |
| 3511673 | Sekisui Chemical Co., Ltd.                                                                               | 06/09/2017 | 3511673 | 17848816.9 |        |
| 3511842 | Palantir Technologies Inc.                                                                               | 07/12/2018 | 3511842 | 18210966.0 |        |
| 3511886 | Deutsche Post AG                                                                                         | 10/01/2019 | 3511886 | 19151185.6 | German |
| 3515320 | Eximis Surgical Inc.                                                                                     | 22/09/2017 | 3515320 | 17788334.5 |        |
| 3517931 | Viavi Solutions Inc.                                                                                     | 04/01/2019 | 3517931 | 19150386.1 |        |
| 3521376 | Nippon Shokubai Co., Ltd.                                                                                | 29/09/2017 | 3521376 | 17856486.0 |        |
| 3526706 | Genomsys SA                                                                                              | 11/07/2017 | 3526706 | 17860867.5 |        |
| 3527154 | Caridi, John<br>Zimmer Biomet Spine, Inc.                                                                | 19/02/2019 | 3527154 | 19158113.1 |        |
| 3529877 | Robert Bosch GmbH                                                                                        | 28/08/2017 | 3529877 | 17757773.1 | German |
| 3530614 | Denka Company Limited                                                                                    | 31/08/2017 | 3530614 | 17863255.0 |        |
| 3531279 | Advanced Nova Technologies (Singapore) Holding Pte. Ltd.                                                 | 17/10/2017 | 3531279 | 17864138.7 |        |
| 3531918 | Body Vision Medical Ltd.                                                                                 | 30/10/2017 | 3531918 | 17864821.8 |        |
| 3532228 | Schmidt + Clemens GmbH + Co. KG                                                                          | 26/10/2017 | 3532228 | 17792023.8 | German |
| 3532967 | Illumina, Inc.                                                                                           | 27/10/2017 | 3532967 | 17798358.2 |        |
| 3535172 | SMARTDRIVE SYSTEMS, INC.                                                                                 | 13/10/2017 | 3535172 | 17867883.5 |        |
| 3535300 | Bristol-Myers Squibb Company<br>CytomX Therapeutics, Inc.                                                | 02/11/2017 | 3535300 | 17837917.8 |        |
| 3537074 | Carrier Corporation                                                                                      | 06/03/2019 | 3537074 | 19161145.8 |        |
| 3537773 | Vivo Mobile Communication Co., Ltd.                                                                      | 31/10/2017 | 3537773 | 17867842.1 |        |
| 3537925 | Colgate-Palmolive Company                                                                                | 13/12/2017 | 3537925 | 17822980.3 |        |
| 3537952 | Koninklijke Philips N.V.                                                                                 | 06/11/2017 | 3537952 | 17794317.2 |        |
| 3540728 | Google LLC                                                                                               | 31/08/2017 | 3540728 | 19169787.9 |        |
| 3541536 | Cytek Biosciences, Inc.                                                                                  | 19/11/2017 | 3541536 | 17871772.4 |        |
| 3542729 | Medtronic Vascular, Inc.                                                                                 | 18/03/2019 | 3542729 | 19163445.0 |        |
| 3543338 | Toyo Seikan Group Holdings, Ltd.                                                                         | 20/11/2017 | 3543338 | 17872112.2 |        |
| 3544800 | Concrete Canvas Technology Ltd.                                                                          | 22/11/2017 | 3544800 | 17808120.4 |        |
| 3546868 | QINGDAO HAIER JOINT STOCK CO., LTD                                                                       | 22/11/2017 | 3546868 | 17873812.6 |        |
| 3547252 | Shanghai United Imaging Healthcare Co., Ltd.                                                             | 28/12/2016 | 3547252 | 16925011.5 |        |
| 3547683 | Huawei Technologies Co., Ltd.                                                                            | 28/12/2016 | 3547683 | 16925804.3 |        |
| 3547925 | Argon Medical Devices, Inc.                                                                              | 27/11/2017 | 3547925 | 17812196.8 |        |
| 3548222 | Teijin Automotive Technologies, Inc.                                                                     | 29/11/2017 | 3548222 | 17876346.2 |        |
| 3549449 | Kirin Beverage Company, Limited                                                                          | 30/10/2017 | 3549449 | 17875245.7 |        |

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|---------|-----------------------------------------------------------------|------------|---------|------------|--------|
| 3551896 | Oldnall, Craig                                                  | 04/12/2017 | 3551896 | 17878208.2 |        |
| 3555281 | Carbios                                                         | 15/12/2017 | 3555281 | 17825471.0 |        |
| 3556366 | SK Biopharmaceuticals Co., Ltd.                                 | 14/12/2017 | 3556366 | 17881161.8 |        |
| 3556550 | Paola Lenti S.r.l.                                              | 16/04/2019 | 3556550 | 19169570.9 |        |
| 3558592 | 3M Innovative Properties Company                                | 15/12/2017 | 3558592 | 17884552.5 |        |
| 3559161 | UOP LLC                                                         | 21/11/2017 | 3559161 | 17883034.5 |        |
| 3565834 | The Research Institute at Nationwide Children's Hospital        | 03/01/2018 | 3565834 | 18701391.7 |        |
| 3571973 | Wolf PVG GmbH & Co. KG                                          | 11/04/2019 | 3571973 | 19168662.5 | German |
| 3574355 | Heriot-Watt University                                          | 24/01/2018 | 3574355 | 18702526.7 |        |
| 3574526 | Micron Technology, Inc.                                         | 11/08/2017 | 3574526 | 17749106.5 |        |
| 3582069 | Spchange, LLC                                                   | 09/02/2018 | 3582069 | 18751161.3 |        |
|         | Nihon Kohden Corporation                                        |            |         |            |        |
|         | Osaka University                                                |            |         |            |        |
|         | National Institute of Information and Communications Technology |            |         |            |        |
| 3583106 | BASF Agro B.V.                                                  | 05/02/2018 | 3583106 | 18704929.1 |        |
| 3583638 | Novaled GmbH                                                    | 20/02/2018 | 3583638 | 18706500.8 |        |
| 3583855 | Nissin Foods Holdings Co., Ltd.                                 | 15/02/2017 | 3583855 | 17896468.0 |        |
| 3584137 | VÚKV a.s.                                                       | 23/04/2019 | 3584137 | 19466004.9 |        |
| 3585175 | CSIR                                                            | 19/02/2018 | 3585175 | 18709402.4 |        |
| 3586157 | Rutgers, The State University of New Jersey                     | 27/02/2018 | 3586157 | 18758169.9 |        |
| 3586235 | High Sec Labs Ltd.                                              | 21/02/2018 | 3586235 | 18758509.6 |        |
| 3586268 | Parikh, Aniket Bharat                                           | 15/02/2018 | 3586268 | 18758281.2 |        |
|         | Parikh, Archana Aniket                                          |            |         |            |        |
| 3586359 | Micron Technology, Inc.                                         | 29/01/2018 | 3586359 | 18757738.2 |        |
| 3586423 | Stellantis Auto SAS                                             | 05/02/2018 | 3586423 | 18707083.4 | French |
|         | Centre National de la Recherche Scientifique                    |            |         |            |        |
|         | Ecole Normale Supérieure Paris-Saclay                           |            |         |            |        |
| 3587042 | Siemens Aktiengesellschaft                                      | 25/06/2018 | 3587042 | 18179535.2 |        |
| 3589057 | Huawei Technologies Co., Ltd.                                   | 14/03/2018 | 3589057 | 18771921.6 |        |
| 3589259 | Rich Technologies Holding Company, LLC                          | 31/01/2018 | 3589259 | 18761388.0 |        |
| 3591320 | QINGDAO HAIER JOINT STOCK CO., LTD                              | 28/02/2018 | 3591320 | 18761452.4 |        |
| 3592343 | Case Western Reserve University                                 | 12/03/2018 | 3592343 | 18764856.3 |        |
| 3593645 | Lutetia                                                         | 02/03/2016 | 3593645 | 19188686.0 | French |
| 3595827 | Güdel AG                                                        | 16/03/2017 | 3595827 | 17711162.2 | German |
| 3597472 | STILL GmbH                                                      | 08/07/2019 | 3597472 | 19184931.4 | German |
| 3598002 | Taiyo Nippon Sanso Corporation                                  | 28/12/2017 | 3598002 | 17900434.6 |        |
| 3600154 | Uniwersytet Jagiellonski                                        | 30/03/2018 | 3600154 | 18774365.3 |        |
|         | Akademia Gorniczo-Hutnicza im. Stanislawia Staszica w Krakowie  |            |         |            |        |
| 3600524 | Becton Dickinson France                                         | 27/03/2018 | 3600524 | 18713915.9 |        |
| 3601672 | Kemira Oyj                                                      | 29/03/2018 | 3601672 | 18714507.3 |        |
| 3602526 | The Procter & Gamble Company                                    | 20/03/2018 | 3602526 | 18716439.7 |        |
| 3603699 | Nipro Corporation                                               | 22/03/2018 | 3603699 | 18770914.2 |        |
| 3603836 | Sumitomo Heavy Industries, LTD.                                 | 28/03/2018 | 3603836 | 18774339.8 |        |
| 3604223 | Ube Material Industries, Ltd.                                   | 27/02/2018 | 3604223 | 18777926.9 |        |
| 3605860 | Datang Mobile Communications Equipment Co., Ltd.                | 14/03/2018 | 3605860 | 18771512.3 |        |
| 3606193 | NTT DoCoMo, Inc.                                                | 22/03/2017 | 3606193 | 17902110.0 |        |
| 3606503 | Henkel AG & Co. KGaA                                            | 02/04/2018 | 3606503 | 18721201.4 |        |
| 3607872 | Welch Allyn, Inc.                                               | 25/07/2019 | 3607872 | 19188470.9 |        |
| 3609096 | ZTE Corporation                                                 | 21/08/2017 | 3609096 | 17904689.1 |        |
| 3609327 | Telluris Biotech India Private Limited                          | 17/03/2018 | 3609327 | 18766799.3 |        |
| 3609512 | The UAB Research Foundation                                     | 04/04/2018 | 3609512 | 18784388.3 |        |
| 3609646 | BPW Bergische Achsen KG                                         | 03/04/2018 | 3609646 | 18718678.8 | German |
| 3611067 | AUMOVIO Autonomous Mobility Germany GmbH                        | 05/08/2019 | 3611067 | 19189990.5 | German |
| 3612126 | The Cleveland Clinic Foundation                                 | 20/04/2018 | 3612126 | 18726567.3 |        |

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| 3612919 | Apple Inc.                                                           | 01/06/2018 | 3612919 | 18809141.7 |        |
| 3613375 | Kardium Inc.                                                         | 07/05/2013 | 3613375 | 19202799.3 |        |
| 3615191 | YDR Teknoloji Gelistirme Limited Sirketi                             | 20/04/2018 | 3615191 | 18820723.7 |        |
| 3617211 | PRG S&Tech Inc.                                                      | 25/04/2018 | 3617211 | 18791502.0 |        |
| 3617546 | Prospira Corporation                                                 | 12/01/2018 | 3617546 | 18791124.3 |        |
| 3617722 | Rockwell Collins, Inc.                                               | 18/01/2019 | 3617722 | 19075001.8 |        |
| 3619085 | Scania CV AB                                                         | 28/03/2018 | 3619085 | 18793980.6 |        |
| 3621490 | Rocking, Inc.                                                        | 11/05/2018 | 3621490 | 18797637.8 |        |
| 3623380 | Novartis AG                                                          | 15/03/2014 | 3623380 | 19187938.6 |        |
|         | The Trustees of The University of Pennsylvania                       |            |         |            |        |
| 3624043 | Samsung Life Public Welfare Foundation                               | 09/05/2018 | 3624043 | 18798937.1 |        |
| 3624350 | Huawei Technologies Co., Ltd.                                        | 03/06/2017 | 3624350 | 17912101.7 |        |
| 3624381 | Huawei Technologies Co., Ltd.                                        | 06/06/2018 | 3624381 | 18812864.9 |        |
| 3625756 | Google LLC                                                           | 10/01/2018 | 3625756 | 18702585.3 |        |
| 3626294 | Fisher & Paykel Healthcare Limited                                   | 07/05/2014 | 3626294 | 19205706.5 |        |
| 3627738 | ZTE Corporation                                                      | 16/05/2018 | 3627738 | 18801334.6 |        |
| 3630226 | West Pharma. Services IL, Ltd.                                       | 25/05/2018 | 3630226 | 18731310.1 |        |
| 3631731 | Intuit Inc.                                                          | 30/04/2018 | 3631731 | 18809044.3 |        |
| 3633209 | Mitsubishi Electric Corporation                                      | 21/05/2018 | 3633209 | 18810821.1 |        |
| 3637309 | Stradvision, Inc.                                                    | 05/09/2019 | 3637309 | 19195511.1 |        |
| 3642040 | Entrust Corporation                                                  | 20/06/2018 | 3642040 | 18821059.5 |        |
| 3643328 | Paul Hartmann AG                                                     | 24/10/2018 | 3643328 | 18202424.0 |        |
| 3643330 | Paul Hartmann AG                                                     | 24/10/2018 | 3643330 | 18202425.7 |        |
| 3644279 | AUMOVIO Autonomous Mobility Germany GmbH                             | 25/10/2018 | 3644279 | 18202458.8 |        |
| 3645062 | Vitaloc Ltd                                                          | 26/06/2018 | 3645062 | 18823904.0 |        |
| 3647630 | Sikorsky Aircraft Corporation                                        | 25/10/2019 | 3647630 | 19205355.1 |        |
| 3648323 | Hamilton Sundstrand Corporation                                      | 05/11/2019 | 3648323 | 19207132.2 |        |
| 3649006 | Compleo Charging Solutions GmbH & Co. KG                             | 25/06/2018 | 3649006 | 18733858.7 | German |
| 3650052 | Viscofan, S.A.                                                       | 26/06/2018 | 3650052 | 18827959.0 |        |
| 3653928 | LG INNOTEK CO. LTD                                                   | 09/08/2013 | 3653928 | 19202761.3 |        |
| 3654382 | Samsung Display Co., Ltd.                                            | 15/11/2019 | 3654382 | 19209349.0 |        |
| 3654711 | Huawei Technologies Co., Ltd.                                        | 10/08/2017 | 3654711 | 17921122.2 |        |
| 3655763 | GE Vernova Technology GmbH                                           | 20/06/2018 | 3655763 | 18834389.1 |        |
| 3657931 | Macdon Industries Ltd.                                               | 01/06/2018 | 3657931 | 18839160.1 |        |
| 3658616 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 25/07/2018 | 3658616 | 18749322.6 | German |
| 3660032 | Amgen Inc.                                                           | 24/06/2010 | 3660032 | 19209054.6 |        |
| 3661269 | QUALCOMM Incorporated                                                | 20/03/2009 | 3661269 | 19213235.5 |        |
| 3661594 | Apere GmbH & Co. KG                                                  | 29/06/2018 | 3661594 | 18738249.4 | German |
| 3661867 | Haulotte Group                                                       | 30/07/2018 | 3661867 | 18743545.8 | French |
| 3662023 | Guangdong Huarun Paints Co., Ltd.                                    | 30/07/2018 | 3662023 | 18765225.0 |        |
| 3664339 | Vivo Mobile Communication Co., Ltd.                                  | 02/08/2018 | 3664339 | 18840644.1 |        |
| 3668238 | Huawei Technologies Co., Ltd.                                        | 07/08/2018 | 3668238 | 18844648.8 |        |
| 3668481 | Firmenich SA                                                         | 13/12/2018 | 3668481 | 18814948.8 |        |
| 3669244 | General Electric Company                                             | 07/08/2018 | 3669244 | 18845610.7 |        |
| 3671716 | Dynascan Technology Corp.                                            | 20/12/2019 | 3671716 | 19000579.3 |        |
| 3672347 | Huawei Technologies Co., Ltd.                                        | 04/09/2018 | 3672347 | 18852840.0 |        |
| 3672349 | Vivo Mobile Communication Co., Ltd.                                  | 15/08/2018 | 3672349 | 18847003.3 |        |
| 3672492 | Samsung Medison Co., Ltd.                                            | 12/04/2018 | 3672492 | 18847971.1 |        |
| 3672656 | Roivios Limited                                                      | 24/08/2018 | 3672656 | 18772904.1 |        |
| 3673035 | Henkel AG & Co. KGaA                                                 | 16/08/2018 | 3673035 | 18758569.0 | German |
| 3673162 | Cummins Ltd                                                          | 22/08/2018 | 3673162 | 18762595.9 |        |
| 3673864 | Nobel Biocare Services AG                                            | 28/12/2018 | 3673864 | 18306870.9 |        |
| 3674941 | Bull SAS                                                             | 23/12/2019 | 3674941 | 19219571.7 | French |
| 3675404 | ZTE Corporation                                                      | 21/08/2018 | 3675404 | 18849239.1 |        |
| 3677039 | Roku, Inc.                                                           | 30/08/2018 | 3677039 | 18849505.5 |        |
| 3677400 | Guangdong Yizumi Precision Machinery Co., Ltd.                       | 18/02/2013 | 3677400 | 20160097.0 | German |
| 3677860 | LG Electronics Inc.                                                  | 03/12/2019 | 3677860 | 19213084.7 |        |

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| 3678403 | Huawei Technologies Co., Ltd.                                  | 11/09/2018 | 3678403 | 18853744.3 |        |
| 3679994 | Fujitsu Limited                                                | 05/09/2017 | 3679994 | 17924726.7 |        |
| 3681694 | DM3D Technology, LLC                                           | 10/09/2018 | 3681694 | 18856685.5 |        |
| 3683739 | Makino Milling Machine Co., Ltd.                               | 15/09/2017 | 3683739 | 17925487.5 |        |
| 3684181 | Mitsui Chemicals Crop & Life Solutions, Inc.                   | 19/09/2018 | 3684181 | 18792551.6 |        |
| 3684577 | Arkema France                                                  | 13/09/2018 | 3684577 | 18783549.1 | French |
| 3686796 | Stradvision, Inc.                                              | 30/10/2019 | 3686796 | 19206216.4 |        |
| 3689371 | Amgen Inc.                                                     | 12/03/2014 | 3689371 | 20158997.5 |        |
| 3690716 | StradVision, Inc.                                              | 17/01/2020 | 3690716 | 20152471.7 |        |
| 3696307 | Candy S.p.A.                                                   | 07/02/2020 | 3696307 | 20156164.4 |        |
| 3697321 | DePuy Synthes Products, Inc.                                   | 18/10/2018 | 3697321 | 18801035.9 |        |
| 3697351 | Biotronik AG                                                   | 17/09/2018 | 3697351 | 18782646.6 |        |
| 3698993 | WESTFALIA - Automotive GmbH                                    | 02/11/2012 | 3698993 | 19204002.0 | German |
| 3699882 | Google LLC                                                     | 09/05/2016 | 3699882 | 20164982.9 |        |
| 3701390 | Dropbox, Inc.                                                  | 13/12/2018 | 3701390 | 18833555.8 |        |
| 3701569 | BOE Technology Group Co., Ltd.                                 | 14/05/2018 | 3701569 | 18847202.1 |        |
|         | Ordos Yuansheng Optoelectronics Co., Ltd.                      |            |         |            |        |
| 3701704 | SMP Logic Systems LLC                                          | 25/10/2018 | 3701704 | 18814711.0 |        |
| 3701990 | Coloplast A/S                                                  | 30/04/2008 | 3701990 | 20170685.0 |        |
| 3703327 | Huawei Technologies Co. Ltd.                                   | 28/03/2014 | 3703327 | 20170967.2 |        |
| 3703484 | MTD Products Inc                                               | 05/11/2018 | 3703484 | 18808573.2 |        |
| 3704444 | Uber Technologies, Inc.                                        | 05/11/2018 | 3704444 | 18873921.3 |        |
| 3704476 | Universidad De La República                                    | 30/10/2018 | 3704476 | 18872481.9 |        |
| 3705369 | Commissariat à l'Energie Atomique et aux Energies Alternatives | 20/02/2020 | 3705369 | 20158549.4 | French |
| 3705501 | Namics Corporation                                             | 30/10/2018 | 3705501 | 18871993.4 |        |
| 3705525 | Jiangsu Hengtong Optic-Electric Co. Ltd.                       | 09/09/2019 | 3705525 | 19875628.0 |        |
| 3705578 | Mitsubishi Gas Chemical Company, Inc.                          | 10/10/2018 | 3705578 | 18865852.0 |        |
|         | Konan Gakuen                                                   |            |         |            |        |
| 3706325 | MediaTek Inc.                                                  | 28/02/2020 | 3706325 | 20160039.2 |        |
| 3706993 | Vinventions USA, LLC                                           | 09/11/2018 | 3706993 | 18822531.2 |        |
| 3707649 | Google LLC                                                     | 14/12/2017 | 3707649 | 17826068.3 |        |
| 3708871 | Nexen Group, Inc.                                              | 06/01/2012 | 3708871 | 19205623.2 |        |
| 3708894 | Eaton Intelligent Power Limited                                | 12/03/2020 | 3708894 | 20162848.4 |        |
| 3710509 | PCC MCAA Sp. z o.o.                                            | 15/11/2018 | 3710509 | 18877884.9 |        |
| 3712981 | LG Energy Solution, Ltd.                                       | 15/11/2019 | 3712981 | 19886148.6 |        |
| 3713509 | Facegenics Inc.                                                | 24/11/2018 | 3713509 | 18822553.6 |        |
| 3713895 | Solidia Technologies, Inc.                                     | 21/11/2018 | 3713895 | 18811750.1 |        |
| 3714119 | Ampjack Industries Ltd.                                        | 26/11/2018 | 3714119 | 18881636.7 |        |
| 3714148 | Dukes Aerospace, Inc.                                          | 20/11/2018 | 3714148 | 18880873.7 |        |
| 3715836 | RTX Corporation                                                | 25/03/2020 | 3715836 | 20165709.5 |        |
| 3717033 | North Carolina State University                                | 03/12/2018 | 3717033 | 18883633.2 |        |
| 3717635 | The Board of Trustees of the University of Illinois            | 28/11/2018 | 3717635 | 18830033.9 |        |
| 3717720 | Brose Schließsysteme GbmH & Co. Kommanditgesellschaft          | 30/11/2018 | 3717720 | 18814550.2 |        |
| 3719396 | Kawasaki Jukogyo Kabushiki Kaisha                              | 27/11/2018 | 3719396 | 18883640.7 |        |
| 3719448 | Hitachi, Ltd.                                                  | 26/02/2020 | 3719448 | 20159538.6 |        |
| 3721275 | Smiths Interconnect Americas, Inc.                             | 07/12/2018 | 3721275 | 18887041.4 |        |
| 3723202 | HUAWEI TECHNOLOGIES CO., LTD.                                  | 24/12/2018 | 3723202 | 18896947.1 |        |
| 3723882 | Tastemakers, LLC                                               | 17/12/2018 | 3723882 | 18887919.1 |        |
| 3728035 | Elevate Aircraft Seating LLC                                   | 21/12/2018 | 3728035 | 18891769.4 |        |
| 3728368 | Huntsman International LLC                                     | 18/12/2017 | 3728368 | 17816841.5 |        |
| 3728478 | TotalEnergies OneTech                                          | 18/12/2018 | 3728478 | 18833957.6 | French |
| 3729176 | Vuzix Corporation                                              | 28/01/2019 | 3729176 | 19752048.9 |        |
| 3729229 | Jemella Limited                                                | 18/12/2018 | 3729229 | 18839847.3 |        |
| 3729558 | Beyond Gravity Sweden AB                                       | 21/12/2017 | 3729558 | 17935119.2 |        |
| 3731697 | Sleep Number Corporation                                       | 27/12/2018 | 3731697 | 18837083.7 |        |
| 3732233 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                 | 20/12/2018 | 3732233 | 18830354.9 |        |

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| 3732451 | Flir Systems AB                                                         | 28/12/2018 | 3732451 | 18834306.5 |        |
|         | Teledyne Flir, LLC                                                      |            |         |            |        |
| 3732489 | Abbott Laboratories                                                     | 27/12/2018 | 3732489 | 18837095.1 |        |
|         | Cedars-Sinai Medical Center                                             |            |         |            |        |
| 3732643 | Block, Inc.                                                             | 13/12/2018 | 3732643 | 18833741.4 |        |
| 3732912 | Iproov Limited                                                          | 28/12/2018 | 3732912 | 18829888.9 |        |
| 3733624 | SEKISUI CHEMICAL CO., LTD.                                              | 27/09/2016 | 3733624 | 20178441.0 |        |
| 3733758 | SUMITOMO RUBBER INDUSTRIES, LTD.                                        | 19/12/2018 | 3733758 | 18895447.3 |        |
| 3735598 | TRUMPF Photonic Components GmbH                                         | 31/12/2018 | 3735598 | 18827137.3 |        |
| 3735599 | Koninklijke Philips N.V.                                                | 31/12/2018 | 3735599 | 18827134.0 |        |
| 3736863 | INTEL Corporation                                                       | 13/03/2020 | 3736863 | 20163008.4 |        |
| 3737317 | Medtronic, Inc.                                                         | 08/01/2019 | 3737317 | 19703791.4 |        |
| 3737445 | Children's Hospital Medical Center                                      | 11/01/2019 | 3737445 | 19738890.3 |        |
|         | University of Cincinnati                                                |            |         |            |        |
|         | B.G. Negev Technologies and Applications Ltd., at Ben-Gurion University |            |         |            |        |
|         | Mor Research Applications Ltd.                                          |            |         |            |        |
| 3737560 | Välinge Innovation AB                                                   | 18/12/2018 | 3737560 | 18900401.3 |        |
| 3737687 | Sage Therapeutics, Inc.                                                 | 11/01/2019 | 3737687 | 19703816.9 |        |
| 3737753 | Agilent Technologies, Inc.                                              | 11/01/2019 | 3737753 | 19738725.1 |        |
| 3739006 | The Hong Kong University of Science and Technology                      | 14/05/2020 | 3739006 | 20174845.6 |        |
| 3739070 | Proterial, Ltd.                                                         | 26/09/2019 | 3739070 | 19867795.7 |        |
| 3739626 | MediaTek Inc.                                                           | 30/04/2020 | 3739626 | 20172494.5 |        |
| 3740996 | University of Houston System                                            | 14/01/2019 | 3740996 | 19738410.0 |        |
|         | Iowa State University Research Foundation, Inc.                         |            |         |            |        |
| 3744943 | Gypass                                                                  | 28/05/2020 | 3744943 | 20177085.6 | French |
| 3745711 | LG Electronics Inc.                                                     | 01/08/2018 | 3745711 | 18901833.6 |        |
| 3745826 | RIKEN                                                                   | 31/08/2018 | 3745826 | 18901222.2 |        |
| 3745923 | LEGGETT & PLATT CANADA CO.                                              | 18/01/2019 | 3745923 | 19747330.9 |        |
| 3748102 | Ackerstein Industries Ltd                                               | 08/06/2020 | 3748102 | 20275104.6 |        |
| 3748392 | NXP USA, Inc.                                                           | 03/06/2019 | 3748392 | 19177910.7 |        |
| 3748441 | Neutron Holdings, Inc.                                                  | 30/01/2018 | 3748441 | 18903630.4 |        |
|         | Zhang, Xi                                                               |            |         |            |        |
| 3748587 | Aug. Winkhaus SE                                                        | 26/05/2020 | 3748587 | 20176439.6 | German |
| 3748891 | HUAWEI TECHNOLOGIES CO., LTD.                                           | 30/01/2019 | 3748891 | 19753967.9 |        |
| 3752049 | Massachusetts Institute of Technology                                   | 12/02/2019 | 3752049 | 19712320.1 |        |
| 3753446 | The Procter & Gamble Company                                            | 21/06/2019 | 3753446 | 19181666.9 |        |
| 3753496 | ConMed Corporation                                                      | 16/12/2016 | 3753496 | 20190335.8 |        |
| 3753629 | Seiko Epson Corporation                                                 | 17/06/2020 | 3753629 | 20180438.2 |        |
| 3754484 | Imagination Technologies Limited                                        | 21/11/2017 | 3754484 | 20185332.2 |        |
| 3755207 | BIOTRONIK SE & Co. KG                                                   | 30/01/2019 | 3755207 | 19703965.4 |        |
| 3755440 | River, Yaron                                                            | 21/02/2019 | 3755440 | 19757769.5 |        |
|         | Pomerantz, Itzhak                                                       |            |         |            |        |
|         | Bachar, Erez                                                            |            |         |            |        |
| 3756584 | Ethicon LLC                                                             | 26/06/2020 | 3756584 | 20182666.6 |        |
| 3758095 | LG Energy Solution, Ltd.                                                | 19/11/2019 | 3758095 | 19888162.5 |        |
| 3758215 | The Boeing Company                                                      | 19/06/2020 | 3758215 | 20181141.1 |        |
| 3758358 | HUAWEI TECHNOLOGIES CO., LTD.                                           | 28/04/2019 | 3758358 | 19791992.1 |        |
| 3758451 | Marelli Germany GmbH                                                    | 25/06/2020 | 3758451 | 20182283.0 | German |
| 3759278 | Stora Enso Oyj                                                          | 25/02/2019 | 3759278 | 19761191.6 |        |
| 3760639 | Kodiak Sciences Inc.                                                    | 08/09/2014 | 3760639 | 20188750.2 |        |
| 3762649 | ClearSign Technologies Corporation                                      | 06/03/2019 | 3762649 | 19763845.5 |        |
| 3762711 | Eagle Harbor Technologies, Inc.                                         | 08/03/2019 | 3762711 | 19764491.7 |        |
| 3762788 | Hewlett-Packard Development Company, L.P.                               | 23/04/2018 | 3762788 | 18916173.0 |        |
| 3763918 | Kawasaki Jukogyo Kabushiki Kaisha                                       | 07/03/2018 | 3763918 | 18908925.3 |        |
| 3764074 | NEC Corporation                                                         | 11/03/2019 | 3764074 | 19764815.7 |        |
| 3764957 | Coloplast A/S                                                           | 15/03/2019 | 3764957 | 19713351.5 |        |
| 3764959 | Coloplast A/S                                                           | 15/03/2019 | 3764959 | 19713353.1 |        |

|         |                                                                                         |            |         |            |        |
|---------|-----------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 3766962 | University of Rochester                                                                 | 06/02/2014 | 3766962 | 20190706.0 |        |
| 3767861 | ZTE Corporation                                                                         | 13/03/2019 | 3767861 | 19766508.6 |        |
| 3767901 | Huawei Technologies Co., Ltd.                                                           | 27/12/2018 | 3767901 | 18912178.3 |        |
| 3768734 | ExxonMobil Chemical Patents Inc.                                                        | 18/03/2019 | 3768734 | 19714081.7 |        |
| 3769437 | HUAWEI TECHNOLOGIES CO., LTD.                                                           | 28/03/2018 | 3769437 | 18714490.2 |        |
| 3770503 | Collins Engine Nozzles, Inc.                                                            | 10/12/2019 | 3770503 | 19214670.2 |        |
| 3770582 | SCREEN Holdings Co., Ltd.                                                               | 29/11/2018 | 3770582 | 18910562.0 |        |
| 3770877 | HONDA MOTOR CO., LTD.                                                                   | 19/03/2019 | 3770877 | 19770300.2 |        |
| 3771032 | PCI Private Limited                                                                     | 30/06/2020 | 3771032 | 20183031.2 |        |
| 3771141 | Robert Bosch GmbH                                                                       | 24/07/2019 | 3771141 | 19187995.6 |        |
| 3771196 | LG Innotek Co., Ltd.                                                                    | 18/03/2019 | 3771196 | 19772457.8 |        |
| 3771408 | Bionime Corporation                                                                     | 31/07/2020 | 3771408 | 20188962.3 |        |
| 3771968 | STMicroelectronics S.r.l.                                                               | 30/07/2020 | 3771968 | 20188660.3 |        |
| 3772053 | Samsung Display Co., Ltd.                                                               | 29/07/2020 | 3772053 | 20188276.8 |        |
| 3772099 | MediaTek Inc.                                                                           | 28/07/2020 | 3772099 | 20188037.4 |        |
| 3773232 | Medtronic, Inc.                                                                         | 05/04/2019 | 3773232 | 19720229.4 |        |
| 3776012 | BP Corporation North America Inc.                                                       | 28/03/2019 | 3776012 | 19717074.9 |        |
| 3776028 | Fraunhofer-Gesellschaft zur Förderung der<br>angewandten Forschung e.V.                 | 29/03/2018 | 3776028 | 18716183.1 | German |
| 3776053 | PhoMedics Limited                                                                       | 26/03/2019 | 3776053 | 19719590.2 |        |
| 3776467 | Microsoft Technology Licensing, LLC                                                     | 27/04/2019 | 3776467 | 19722484.3 |        |
| 3776479 | Medtronic Navigation, Inc.<br>Johns Hopkins University                                  | 05/04/2019 | 3776479 | 19718884.0 |        |
| 3776964 | Nokia Technologies Oy                                                                   | 01/04/2019 | 3776964 | 19715873.6 |        |
| 3777373 | QUALCOMM INCORPORATED                                                                   | 10/04/2019 | 3777373 | 19723244.0 |        |
| 3778186 | W. L. Gore & Associates, Inc.                                                           | 29/07/2015 | 3778186 | 20198186.7 |        |
| 3778375 | Kawasaki Jukogyo Kabushiki Kaisha                                                       | 10/04/2019 | 3778375 | 19785520.8 |        |
| 3778386 | Japan Aerospace Exploration Agency                                                      | 29/03/2019 | 3778386 | 19780631.8 |        |
| 3778791 | FUJIFILM Corporation                                                                    | 18/03/2019 | 3778791 | 19776997.9 |        |
| 3780440 | HUAWEI TECHNOLOGIES CO., LTD.                                                           | 04/09/2019 | 3780440 | 19856989.9 |        |
| 3780897 | Vivo Mobile Communication Co., Ltd.                                                     | 21/02/2019 | 3780897 | 19777082.9 |        |
| 3782102 | Cirata, Inc.                                                                            | 04/06/2019 | 3782102 | 19831183.9 |        |
| 3782674 | JMS Co., Ltd.<br>Kyoto University                                                       | 04/04/2019 | 3782674 | 19789232.6 |        |
| 3783448 | GKN Sinter Metals Engineering GmbH                                                      | 19/08/2019 | 3783448 | 19192222.8 | German |
| 3785197 | ADP, Inc.                                                                               | 28/03/2019 | 3785197 | 19717088.9 |        |
| 3786249 | LG CHEM, LTD.                                                                           | 11/07/2019 | 3786249 | 19834595.1 |        |
| 3787032 | CANON KABUSHIKI KAISHA                                                                  | 05/08/2020 | 3787032 | 20189679.2 |        |
| 3789936 | Audatex GmbH                                                                            | 25/02/2011 | 3789936 | 20204390.7 |        |
| 3790516 | Coloplast A/S                                                                           | 07/05/2019 | 3790516 | 19723648.2 |        |
| 3791225 | Microsoft Technology Licensing, LLC                                                     | 27/04/2019 | 3791225 | 19722486.8 |        |
| 3791249 | Apple Inc.                                                                              | 07/05/2019 | 3791249 | 19727184.4 |        |
| 3791851 | Otsuka Clinical Solutions, Inc.<br>Pax Co., Ltd.<br>Otsuka Pharmaceutical Factory, Inc. | 07/05/2018 | 3791851 | 18917972.4 |        |
| 3793118 | FUJITSU LIMITED                                                                         | 10/05/2018 | 3793118 | 18917767.8 |        |
| 3794005 | Jumpstart Fertility Pty Ltd<br>Life Biosciences, Inc.                                   | 15/03/2019 | 3794005 | 19714929.7 |        |
| 3794223 | Valeo Systemes Thermiques-THS                                                           | 24/06/2019 | 3794223 | 19745706.2 | French |
| 3794419 | Siemens Aktiengesellschaft                                                              | 25/06/2018 | 3794419 | 18762164.4 |        |
| 3795598 | AGC INC.                                                                                | 16/05/2019 | 3795598 | 19803773.1 |        |
| 3796028 | Robert Bosch GmbH                                                                       | 17/05/2018 | 3796028 | 18918812.1 |        |
| 3796569 | Huawei Technologies Co., Ltd.                                                           | 15/05/2019 | 3796569 | 19803658.4 |        |
| 3797158 | DSM IP Assets B.V.                                                                      | 21/05/2019 | 3797158 | 19729428.3 |        |
| 3797424 | Norton (Waterford) Limited                                                              | 30/04/2020 | 3797424 | 20724568.9 |        |
| 3797425 | Norton (Waterford) Limited                                                              | 30/04/2020 | 3797425 | 20724938.4 |        |
| 3797567 | Equinix, Inc.                                                                           | 14/08/2020 | 3797567 | 20764511.0 |        |
| 3798121 | Goodrich Corporation                                                                    | 16/12/2019 | 3798121 | 19216708.8 |        |
| 3799127 | BOE TECHNOLOGY GROUP CO., LTD.                                                          | 04/04/2019 | 3799127 | 19807442.9 |        |
| 3799693 | HUAWEI TECHNOLOGIES CO., LTD.                                                           | 28/06/2019 | 3799693 | 19825737.0 |        |
| 3800137 | Krones AG                                                                               | 17/08/2020 | 3800137 | 20191309.2 | German |
| 3800320 | VKR Holding A/S                                                                         | 02/10/2019 | 3800320 | 19200977.7 |        |

|         |                                                      |            |         |            |        |
|---------|------------------------------------------------------|------------|---------|------------|--------|
| 3800406 | Hamilton Sundstrand Corporation                      | 11/12/2019 | 3800406 | 19215268.4 | German |
| 3802640 | Univation Technologies, LLC                          | 08/05/2019 | 3802640 | 19725541.7 |        |
| 3803065 | Eaton Intelligent Power Limited                      | 31/05/2019 | 3803065 | 19730681.4 |        |
| 3803149 | Vibracoustic SE                                      | 11/04/2019 | 3803149 | 19718631.5 |        |
| 3804170 | Hughes Network Systems, LLC                          | 29/05/2019 | 3804170 | 19733234.9 |        |
| 3805067 | Unitsky, Anatoli Eduardovich                         | 23/05/2019 | 3805067 | 19808146.5 |        |
| 3805666 | CSIC PRIDE (NANJING) CRYOGENIC TECHNOLOGY CO., LTD.  | 08/08/2018 | 3805666 | 18921799.5 |        |
| 3806963 | The Procter & Gamble Company                         | 12/06/2019 | 3806963 | 19740099.7 |        |
| 3807229 | Nouryon Chemicals International B.V.                 | 07/06/2019 | 3807229 | 19728451.6 |        |
| 3807297 | The University of North Carolina at Chapel Hill      | 12/06/2019 | 3807297 | 19820077.6 |        |
| 3808042 | Nokia Solutions and Networks Oy                      | 14/06/2018 | 3808042 | 18759165.6 |        |
| 3808069 | General Electric Company                             | 13/06/2019 | 3808069 | 19735026.7 |        |
| 3808728 | SK Chemicals Co., Ltd.                               | 31/05/2019 | 3808728 | 19819106.6 |        |
| 3809527 | HUAWEI TECHNOLOGIES CO., LTD.                        | 11/07/2019 | 3809527 | 19834327.9 |        |
| 3812488 | Shin-Etsu Handotai Co., Ltd.                         | 29/05/2019 | 3812488 | 19821920.6 |        |
| 3812777 | HUAWEI TECHNOLOGIES CO., LTD.                        | 29/05/2019 | 3812777 | 19823205.0 |        |
| 3813337 | Apple Inc.                                           | 29/05/2014 | 3813337 | 20214503.3 |        |
| 3813634 | Auris Health, Inc.                                   | 24/09/2019 | 3813634 | 19867978.9 |        |
| 3813986 | Mineral Carbonation International PTY Ltd            | 08/05/2019 | 3813986 | 19799516.0 |        |
| 3813993 | Scentronix Inc.                                      | 07/05/2019 | 3813993 | 19799205.0 |        |
| 3814178 | Valeo Systèmes d'Essuyage                            | 18/06/2019 | 3814178 | 19827220.5 |        |
| 3815045 | Zoox, Inc.                                           | 28/06/2019 | 3815045 | 19744962.2 |        |
| 3816676 | Samsung Electronics Co., Ltd.                        | 20/10/2020 | 3816676 | 20202799.1 |        |
| 3818406 | Universitat de Barcelona                             | 01/07/2019 | 3818406 | 19737490.3 |        |
| 3818499 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.  | 07/09/2018 | 3818499 | 18769130.8 |        |
| 3819857 | Hitachi, Ltd.                                        | 06/07/2018 | 3819857 | 18925218.2 |        |
| 3820055 | NTT DoCoMo, Inc.                                     | 04/07/2018 | 3820055 | 18925538.3 |        |
| 3820315 | Philip Morris Products S.A.                          | 09/07/2019 | 3820315 | 19737106.5 |        |
| 3820400 | Individual Implant Solutions, Inc.                   | 09/07/2019 | 3820400 | 19833818.8 |        |
| 3820581 | Karsten Manufacturing Corporation                    | 12/07/2019 | 3820581 | 19834854.2 |        |
| 3822677 | HUAWEI TECHNOLOGIES CO., LTD.                        | 24/07/2020 | 3822677 | 20847044.3 | German |
| 3824277 | Huron Technologies International Inc.                | 17/07/2019 | 3824277 | 19837329.2 |        |
| 3825099 | GC Corporation                                       | 19/04/2019 | 3825099 | 19838418.2 |        |
| 3825105 | Stadlmann, Klaus                                     | 21/12/2016 | 3825105 | 21151984.8 |        |
| 3825270 | KONE Corporation                                     | 22/11/2019 | 3825270 | 19210803.3 |        |
| 3828187 | BTN Co., Ltd.                                        | 26/11/2018 | 3828187 | 18927253.7 |        |
| 3828204 | Gliknik Inc.                                         | 22/07/2016 | 3828204 | 20207511.5 |        |
| 3828441 | RTX Corporation                                      | 28/01/2013 | 3828441 | 20216432.3 |        |
| 3828444 | WITTENSTEIN SE                                       | 02/11/2020 | 3828444 | 20205252.8 |        |
| 3828811 | Samsung Electronics Co., Ltd.                        | 30/03/2020 | 3828811 | 20166652.6 | German |
| 3828962 | Panasonic Intellectual Property Management Co., Ltd. | 18/03/2019 | 3828962 | 19839821.6 |        |
| 3830532 | Illinois Tool Works, Inc.                            | 02/08/2019 | 3830532 | 19752888.8 |        |
| 3832295 | VIEW-ON LTD.                                         | 26/06/2019 | 3832295 | 19845237.7 |        |
| 3832403 | Tissot S.A.                                          | 06/12/2019 | 3832403 | 19214102.6 | French |
| 3833140 | Beijing Xiaomi Mobile Software Co., Ltd.             | 10/08/2017 | 3833140 | 20205255.1 |        |
| 3833260 | Athlos Oy                                            | 08/08/2019 | 3833260 | 19848383.6 |        |
| 3833641 | Pilkington Automotive Poland Sp. z o.o.              | 08/08/2019 | 3833641 | 19762492.7 |        |
| 3833809 | 3M Innovative Properties Company                     | 08/08/2019 | 3833809 | 19755770.5 |        |
| 3833820 | Doosan Bobcat North America, Inc.                    | 06/08/2019 | 3833820 | 19755754.9 |        |
| 3834024 | PerkinElmer U.S. LLC                                 | 12/08/2019 | 3834024 | 19759226.4 |        |
| 3834437 | CHEP Technology Pty Limited                          | 08/08/2019 | 3834437 | 19753030.6 |        |
| 3834824 | Duke University                                      | 28/03/2015 | 3834824 | 21151737.0 |        |
| 3835647 | Electronic Theatre Controls, Inc.                    | 10/12/2020 | 3835647 | 20213122.3 |        |
| 3835793 | ROSEMOUNT AEROSPACE INC.                             | 04/11/2020 | 3835793 | 20205705.5 |        |
| 3836467 | ZTE Corporation                                      | 12/08/2019 | 3836467 | 19848341.4 |        |
| 3837778 | QUALCOMM Incorporated                                | 13/08/2019 | 3837778 | 19759482.3 |        |
| 3838597 | Mimaki Engineering Co., Ltd.                         | 07/08/2019 | 3838597 | 19849151.6 |        |
| 3839721 | Assa Abloy AB                                        | 31/08/2012 | 3839721 | 20197222.1 |        |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 3840445 | T-Mobile USA, Inc.                                                   | 15/12/2020 | 3840445 | 20214025.7 |        |
| 3843590 | PepsiCo, Inc.                                                        | 27/08/2019 | 3843590 | 19856329.8 |        |
| 3843731 | Xinmin, Xie                                                          | 28/08/2019 | 3843731 | 19854290.4 |        |
|         | Afasci, Inc.                                                         |            |         |            |        |
| 3844384 | Wobben Properties GmbH                                               | 27/08/2019 | 3844384 | 19762737.5 | German |
| 3844552 | BOE TECHNOLOGY GROUP CO., LTD.                                       | 29/03/2019 | 3844552 | 19854609.5 |        |
| 3844736 | ResuSciTec GmbH                                                      | 09/08/2019 | 3844736 | 19753320.1 | German |
| 3846207 | CSMC Technologies Fab2 Co., Ltd.                                     | 15/08/2019 | 3846207 | 19855237.4 |        |
| 3846326 | Minebea Mitsumi Inc.                                                 | 28/08/2019 | 3846326 | 19854445.4 |        |
| 3846564 | QUALCOMM Incorporated                                                | 20/04/2016 | 3846564 | 21157839.8 |        |
| 3847417 | Ampere SAS                                                           | 08/07/2019 | 3847417 | 19735357.6 | French |
|         | NISSAN MOTOR CO., LTD.                                               |            |         |            |        |
| 3847443 | Nicoya Lifesciences Inc.                                             | 06/09/2019 | 3847443 | 19857917.9 |        |
| 3847904 | British American Tobacco (Investments) Limited                       | 02/03/2017 | 3847904 | 21159251.4 |        |
|         | Fiedler & Lundgren AB                                                |            |         |            |        |
| 3849749 | Gustav Klauke GmbH                                                   | 06/09/2019 | 3849749 | 19766220.8 | German |
| 3849763 | Fachhochschule Kiel                                                  | 23/05/2019 | 3849763 | 19731154.1 | German |
| 3850896 | QUALCOMM INCORPORATED                                                | 13/09/2019 | 3850896 | 19779272.4 |        |
| 3851721 | Moog Japan Ltd.                                                      | 27/05/2019 | 3851721 | 19860765.7 |        |
| 3852111 | MGI Tech Co., Ltd.                                                   | 23/10/2018 | 3852111 | 18937933.2 |        |
| 3852915 | ETH Zürich                                                           | 17/09/2019 | 3852915 | 19766276.0 |        |
| 3853263 | Wool Research Organisation of New Zealand Incorporated               | 18/09/2019 | 3853263 | 19863307.5 |        |
|         | Saleh, Mirshahin Seyed                                               |            |         |            |        |
| 3853495 | Vibracoustic SE                                                      | 18/06/2019 | 3853495 | 19733694.4 | German |
| 3853520 | Fischer Lighting ApS                                                 | 23/09/2019 | 3853520 | 19769832.7 |        |
| 3853736 | Joby Aero, Inc.                                                      | 17/09/2019 | 3853736 | 19863480.0 |        |
| 3853748 | Microsoft Technology Licensing, LLC                                  | 26/06/2019 | 3853748 | 19745814.4 |        |
| 3853974 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 19/09/2019 | 3853974 | 19773405.6 | German |
| 3854108 | Shure Acquisition Holdings, Inc.                                     | 19/09/2019 | 3854108 | 19782827.0 |        |
| 3854684 | Arborea Intellbird S.L.                                              | 18/09/2018 | 3854684 | 18934034.2 |        |
| 3854765 | Murata Manufacturing Co., Ltd.                                       | 17/12/2019 | 3854765 | 19903402.6 |        |
| 3854899 | SUMITOMO ELECTRIC INDUSTRIES, LTD.                                   | 18/09/2019 | 3854899 | 19863657.3 |        |
|         | Sumitomo Electric Hardmetal Corp.                                    |            |         |            |        |
| 3855160 | Kyocera Corporation                                                  | 05/09/2019 | 3855160 | 19863735.7 |        |
| 3856822 | Dow Silicones Corporation                                            | 27/09/2019 | 3856822 | 19865307.3 |        |
| 3857246 | Klaus Faber AG                                                       | 02/11/2019 | 3857246 | 19817945.9 | German |
| 3857376 | Microsoft Technology Licensing, LLC                                  | 01/11/2019 | 3857376 | 19809282.7 |        |
| 3857546 | Samsung Electronics Co., Ltd.                                        | 22/11/2019 | 3857546 | 19887083.4 |        |
| 3858247 | Tata Consultancy Services Limited                                    | 14/01/2021 | 3858247 | 21151607.5 |        |
| 3858460 | MANN+HUMMEL GmbH                                                     | 08/02/2016 | 3858460 | 21165026.2 |        |
| 3858793 | AGC INC.                                                             | 18/11/2019 | 3858793 | 19887171.7 |        |
| 3858833 | TransThera Sciences (Nanjing), Inc.                                  | 05/07/2019 | 3858833 | 19866403.9 |        |
| 3858868 | Jecho Laboratories, Inc.                                             | 27/09/2019 | 3858868 | 19867591.0 |        |
|         | Jecho Institute Co., Ltd.                                            |            |         |            |        |
| 3859945 | Astemo, Ltd.                                                         | 13/12/2019 | 3859945 | 19909327.9 |        |
| 3860098 | Samsung Display Co., Ltd.                                            | 28/10/2020 | 3860098 | 20204226.3 |        |
| 3860516 | Edwards Lifesciences Corporation                                     | 18/09/2019 | 3860516 | 19780082.4 |        |
| 3860589 | Harman Finchem Limited                                               | 06/11/2019 | 3860589 | 19881665.4 |        |
| 3861240 | Möller Werke GmbH                                                    | 08/09/2020 | 3861240 | 20772238.0 | German |
| 3861364 | QUALCOMM INCORPORATED                                                | 05/09/2019 | 3861364 | 19772931.2 |        |
| 3862595 | Airbus Operations SAS                                                | 25/01/2021 | 3862595 | 21153317.9 | French |
| 3862731 | Illinois Tool Works INC.                                             | 21/01/2021 | 3862731 | 21152687.6 |        |
| 3862769 | Allegro MicroSystems, LLC                                            | 07/02/2020 | 3862769 | 20315015.6 |        |
| 3863010 | YAMAHA CORPORATION                                                   | 28/01/2021 | 3863010 | 21154007.5 |        |
| 3864750 | Samsung Electronics Co., Ltd.                                        | 06/01/2020 | 3864750 | 20738913.1 |        |
| 3864821 | McAfee, LLC                                                          | 25/09/2019 | 3864821 | 19871315.8 |        |
| 3865254 | Intelligrated Headquarters LLC                                       | 26/08/2015 | 3865254 | 21161964.8 |        |



|         |                                                      |            |         |            |        |
|---------|------------------------------------------------------|------------|---------|------------|--------|
| 3865711 | EBM-PAPST ST. GEORGEN GMBH & CO. KG                  | 11/01/2021 | 3865711 | 21150833.8 | German |
| 3865758 | JFE Steel Corporation                                | 11/11/2019 | 3865758 | 19884261.9 |        |
| 3865821 | TomTom Navigation B.V.                               | 04/05/2017 | 3865821 | 21167480.9 |        |
| 3865963 | Mobility Asia Smart Technology Co. Ltd.              | 11/02/2021 | 3865963 | 21156584.1 |        |
|         | Volkswagen Automatic Transmission (Dalian) Co., Ltd. |            |         |            |        |
| 3866152 | Samsung Display Co., Ltd.                            | 11/04/2019 | 3866152 | 19871143.4 |        |
| 3866182 | Panasonic Intellectual Property Management Co., Ltd. | 06/08/2019 | 3866182 | 19871203.6 |        |
| 3866515 | CANON KABUSHIKI KAISHA                               | 05/02/2021 | 3866515 | 21155553.7 |        |
| 3869247 | Huawei Technologies Co., Ltd.                        | 13/06/2019 | 3869247 | 19891182.8 |        |
| 3869758 | Quantumtek Co., Ltd.                                 | 23/09/2019 | 3869758 | 19874523.4 |        |
| 3871266 | Atomera Incorporated                                 | 13/11/2019 | 3871266 | 19817026.8 |        |
| 3872659 | Apple Inc.                                           | 23/01/2015 | 3872659 | 21164867.0 |        |
| 3873186 | Fuji Corporation                                     | 22/10/2018 | 3873186 | 18937745.0 |        |
| 3873334 | Murata Vios, Inc.                                    | 29/01/2020 | 3873334 | 20708362.7 |        |
| 3873686 | Schnell S.p.A.                                       | 31/10/2019 | 3873686 | 19816469.1 |        |
| 3873742 | Crown Packaging Technology, Inc.                     | 31/10/2019 | 3873742 | 19809272.8 |        |
| 3875679 | Ichikawa Co., Ltd.                                   | 12/02/2021 | 3875679 | 21156902.5 |        |
| 3876202 | Korea Aerospace Research Institute                   | 28/03/2019 | 3876202 | 19878571.9 |        |
| 3876235 | Intel NDTM US LLC                                    | 18/11/2020 | 3876235 | 20208343.2 |        |
| 3876260 | Philipps-Universität Marburg                         | 05/03/2020 | 3876260 | 20161225.6 |        |
| 3876652 | Beijing Xiaomi Mobile Software Co., Ltd.             | 29/10/2018 | 3876652 | 18939114.7 |        |
| 3876973 | Synthorx, Inc.                                       | 07/11/2019 | 3876973 | 19882876.6 |        |
| 3878732 | Torqeedo GmbH                                        | 12/03/2021 | 3878732 | 21162364.0 | German |
| 3879872 | Huawei Technologies Co., Ltd.                        | 25/11/2019 | 3879872 | 19890850.1 |        |
| 3880539 | Rivian IP Holdings, LLC                              | 13/11/2019 | 3880539 | 19817852.7 |        |
| 3882084 | AUTEL INTELLIGENT TECHNOLOGY CORP., LTD.             | 04/12/2019 | 3882084 | 19893857.3 |        |
| 3883738 | NIKE Innovate C.V.                                   | 18/11/2019 | 3883738 | 19817538.2 |        |
| 3884532 | BOE Technology Group Co., Ltd.                       | 20/11/2018 | 3884532 | 18932975.8 |        |
| 3886197 | LG Electronics Inc.                                  | 23/11/2018 | 3886197 | 18940946.9 |        |
|         | LG Chem, Ltd.                                        |            |         |            |        |
| 3886519 | Sony Group Corporation                               | 09/06/2011 | 3886519 | 21172277.2 |        |
| 3888011 | Microsoft Technology Licensing, LLC                  | 22/11/2019 | 3888011 | 19821386.0 |        |
| 3888208 | Cummins Power Generation IP, Inc.                    | 26/11/2019 | 3888208 | 19818500.1 |        |
| 3888287 | Intuit Inc.                                          | 01/07/2020 | 3888287 | 20743508.2 |        |
| 3889045 | B/E Aerospace, Inc.                                  | 30/03/2021 | 3889045 | 21166036.0 |        |
| 3889384 | aluplast GmbH                                        | 17/03/2021 | 3889384 | 21163246.8 | German |
| 3889600 | Tecniplast S.p.A.                                    | 31/03/2021 | 3889600 | 21166271.3 |        |
| 3889916 | JVCKenwood Corporation                               | 19/08/2019 | 3889916 | 19889774.6 |        |
| 3890316 | AUMOVIO Autonomous Mobility Germany GmbH             | 01/04/2020 | 3890316 | 20167451.2 |        |
| 3890391 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 25/12/2018 | 3890391 | 18944159.5 |        |
| 3891206 | Allnex Netherlands B.V.                              | 04/12/2019 | 3891206 | 19809882.4 |        |
| 3891840 | Rospsha, Nimrod                                      | 05/12/2019 | 3891840 | 19894293.0 |        |
| 3892258 | Wanhua Chemical Group Co., Ltd.                      | 11/12/2018 | 3892258 | 18941986.4 |        |
| 3892851 | General Electric Renovables España S.L.              | 29/03/2021 | 3892851 | 21165673.1 |        |
| 3893401 | INTEL Corporation                                    | 30/11/2020 | 3893401 | 20210548.2 |        |
| 3893822 | ConvaTec Technologies Inc.                           | 12/12/2019 | 3893822 | 19836320.2 |        |
| 3894137 | Milwaukee Electric Tool Corporation                  | 10/12/2019 | 3894137 | 19895979.3 |        |
| 3894590 | 10X Genomics, Inc.                                   | 06/12/2019 | 3894590 | 19836719.5 |        |
| 3894616 | GlobalWafers Co., Ltd.                               | 12/11/2019 | 3894616 | 19836184.2 |        |
| 3894912 | Giesecke+Devrient Currency Technology GmbH           | 02/12/2019 | 3894912 | 19820670.8 | German |
| 3895448 | Google LLC                                           | 14/11/2019 | 3895448 | 19817865.9 |        |
| 3895665 | Vetrust Meditech Co., Ltd.                           | 10/12/2019 | 3895665 | 19897235.8 |        |
| 3896653 | Stryker European Operations Limited                  | 15/04/2020 | 3896653 | 20169620.0 |        |
| 3896741 | Samsung Display Co., Ltd.                            | 29/03/2021 | 3896741 | 21165432.2 |        |
| 3896927 | HUAWEI TECHNOLOGIES CO., LTD.                        | 29/09/2020 | 3896927 | 20900678.2 |        |

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| 3897735 | Sapreme Technologies B.V.                                            | 09/12/2019 | 3897735 | 19817689.3 |        |
| 3898155 | The Procter & Gamble Company                                         | 19/12/2019 | 3898155 | 19842929.2 |        |
| 3899393 | Piovan S.P.A.                                                        | 13/12/2019 | 3899393 | 19835502.6 |        |
| 3899777 | Pragmatic Semiconductor Limited                                      | 03/12/2019 | 3899777 | 19821153.4 |        |
| 3900483 | Breville Pty Limited                                                 | 18/12/2019 | 3900483 | 19898646.5 |        |
| 3901615 | HONEYWELL INTERNATIONAL INC.                                         | 12/04/2021 | 3901615 | 21167948.5 |        |
| 3901821 | Stradvision, Inc.                                                    | 17/03/2021 | 3901821 | 21163049.6 |        |
| 3901847 | GEOTAB Inc.                                                          | 17/12/2020 | 3901847 | 20215034.8 |        |
| 3901856 | GEOTAB Inc.                                                          | 11/02/2021 | 3901856 | 21156583.3 |        |
| 3902112 | NIPPON STEEL CORPORATION                                             | 17/12/2019 | 3902112 | 19899298.4 |        |
| 3902294 | Fiorentino, Ramon                                                    | 13/12/2017 | 3902294 | 17934742.2 |        |
| 3903110 | Beckman Coulter, Inc.                                                | 27/12/2019 | 3903110 | 19905258.0 |        |
| 3903304 | LG Electronics Inc.                                                  | 27/12/2019 | 3903304 | 19903614.6 |        |
| 3903689 | Aesculap AG                                                          | 28/03/2017 | 3903689 | 21181118.7 | German |
| 3904194 | Hanwha Ocean Co., Ltd.                                               | 19/12/2019 | 3904194 | 19904723.4 |        |
| 3905111 | Huawei Technologies Co., Ltd.                                        | 12/02/2020 | 3905111 | 20758780.9 |        |
| 3905555 | HUAWEI TECHNOLOGIES CO., LTD.                                        | 18/12/2017 | 3905555 | 21163087.6 |        |
| 3905846 | The Boeing Company                                                   | 16/04/2021 | 3905846 | 21168824.7 |        |
| 3905934 | Osborne, Charles Agnew                                               | 31/12/2019 | 3905934 | 19907795.9 |        |
| 3906747 | Samsung Electronics Co., Ltd.                                        | 16/01/2020 | 3906747 | 20742000.1 |        |
| 3907608 | Huawei Technologies Co., Ltd.                                        | 13/01/2020 | 3907608 | 20748090.6 |        |
| 3908297 | SpinalCyte LLC                                                       | 13/01/2020 | 3908297 | 20738380.3 |        |
| 3908733 | Welltec A/S                                                          | 07/01/2020 | 3908733 | 20700153.8 |        |
| 3909185 | QUALCOMM INCORPORATED                                                | 09/01/2020 | 3909185 | 20703359.8 |        |
| 3909318 | ZTE Corporation                                                      | 11/01/2019 | 3909318 | 19849830.5 |        |
| 3909667 | Universita' Degli Studi Di Sassari                                   | 31/07/2018 | 3909667 | 21184465.9 |        |
| 3911062 | Beijing Xiaomi Mobile Software Co., Ltd.                             | 08/01/2019 | 3911062 | 19908682.8 |        |
| 3912913 | The Boeing Company                                                   | 16/04/2021 | 3912913 | 21168773.6 |        |
| 3913189 | RTX Corporation                                                      | 24/05/2021 | 3913189 | 21175547.5 |        |
| 3913540 | HCL Technologies Limited                                             | 30/12/2020 | 3913540 | 20217850.5 |        |
| 3914400 | BASF SE                                                              | 13/01/2020 | 3914400 | 20700290.8 | German |
| 3914663 | Brewer Science, Inc.                                                 | 20/01/2020 | 3914663 | 20744369.8 |        |
| 3914761 | Bagchanger Inc.                                                      | 24/01/2020 | 3914761 | 20745510.6 |        |
| 3914947 | CommScope Connectivity Belgium BVBA                                  | 24/01/2020 | 3914947 | 20702003.3 |        |
| 3915472 | The Board of Trustees of the Leland Stanford Junior University       | 26/01/2015 | 3915472 | 21185960.8 |        |
| 3915592 | The Boeing Company                                                   | 30/03/2021 | 3915592 | 21165853.9 |        |
| 3916637 | Vodafone Group Services Limited                                      | 29/05/2020 | 3916637 | 20386029.1 |        |
| 3917369 | 3M Innovative Properties Company                                     | 28/01/2020 | 3917369 | 20703544.5 |        |
| 3917586 | MicroVention, Inc.                                                   | 27/01/2020 | 3917586 | 20747863.7 |        |
| 3918131 | Stora Enso Oyj                                                       | 23/01/2020 | 3918131 | 20704076.7 |        |
| 3918443 | Intuit Inc.                                                          | 26/07/2019 | 3918443 | 19750216.4 |        |
| 3919129 | LG Electronics Inc.                                                  | 29/12/2020 | 3919129 | 20217533.7 |        |
| 3919545 | SHPP Global Technologies B.V.                                        | 07/08/2020 | 3919545 | 20190064.4 |        |
| 3919802 | Westenergie AG                                                       | 19/05/2021 | 3919802 | 21174804.1 | German |
| 3919838 | BSH Hausgeräte GmbH                                                  | 05/05/2021 | 3919838 | 21172293.9 | German |
| 3920595 | HUAWEI TECHNOLOGIES CO., LTD.                                        | 22/05/2018 | 3920595 | 21168289.3 |        |
| 3920781 | Nanyang Technological University                                     | 10/02/2020 | 3920781 | 20753197.1 |        |
| 3920817 | DISRAD AG                                                            | 08/02/2019 | 3920817 | 19710485.4 |        |
| 3921094 | Illinois Tool Works Inc.                                             | 30/01/2020 | 3921094 | 20708879.0 |        |
| 3921166 | Hewlett-Packard Development Company, L.P.                            | 06/02/2019 | 3921166 | 19914280.3 |        |
| 3921285 | Evoqua Water Technologies LLC                                        | 13/03/2020 | 3921285 | 20769762.4 |        |
| 3922880 | Jatco Ltd.                                                           | 12/11/2019 | 3922880 | 19914202.7 |        |
| 3923136 | NXP USA, Inc.                                                        | 09/06/2020 | 3923136 | 20179063.1 |        |
| 3923248 | Tencent Technology (Shenzhen) Company Limited                        | 27/08/2020 | 3923248 | 20863666.2 |        |
| 3924613 | Woodward L'Orange GmbH                                               | 29/01/2020 | 3924613 | 20703178.2 | German |
| 3926022 | IMT Masken und Teilungen AG                                          | 18/06/2020 | 3926022 | 20180863.1 | German |
| 3926028 | Idemitsu Kosan Co., Ltd.                                             | 17/01/2020 | 3926028 | 20756156.4 |        |
| 3926285 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 18/06/2020 | 3926285 | 20180665.0 | German |

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| 3926372 | Himax Technologies Limited                                                                              | 14/05/2021 | 3926372 | 21173800.0 |        |
| 3926479 | Intel Corporation                                                                                       | 12/11/2020 | 3926479 | 20207195.7 |        |
| 3927064 | Datang Mobile Communications Equipment Co., Ltd.                                                        | 14/01/2020 | 3927064 | 20756230.7 |        |
| 3927622 | Siemens Logistics GmbH                                                                                  | 28/01/2020 | 3927622 | 20704415.7 | German |
| 3928388 | Electro Scientific Industries, Inc.                                                                     | 04/02/2020 | 3928388 | 20759149.6 |        |
| 3928539 | Malikie Innovations Limited                                                                             | 30/04/2020 | 3928539 | 20803012.2 |        |
| 3929760 | SAP SE                                                                                                  | 24/03/2021 | 3929760 | 21164673.2 |        |
| 3930079 | LG Energy Solution, Ltd.                                                                                | 06/07/2020 | 3930079 | 20887663.1 |        |
| 3930220 | IMRA Europe S.A.S.                                                                                      | 23/06/2020 | 3930220 | 20315313.5 |        |
| 3930222 | OpenLight Photonics, Inc.                                                                               | 21/09/2020 | 3930222 | 20197235.3 |        |
| 3931032 | VOLVO TRUCK CORPORATION                                                                                 | 25/02/2019 | 3931032 | 19713356.4 |        |
| 3932177 | B. Strautmann & Söhne GmbH u. Co. KG                                                                    | 22/06/2021 | 3932177 | 21180879.5 | German |
| 3933080 | Kaneka Corporation                                                                                      | 16/01/2020 | 3933080 | 20765824.6 |        |
| 3934058 | Nike Innovate C.V.                                                                                      | 23/01/2018 | 3934058 | 21191777.8 |        |
| 3934504 | FBGS Technologies GmbH<br>FBGS International NV                                                         | 04/03/2020 | 3934504 | 20707122.6 |        |
| 3936534 | AGC INC.                                                                                                | 06/03/2020 | 3936534 | 20770523.7 |        |
| 3936559 | Fritz Egger GmbH & Co. OG                                                                               | 07/07/2020 | 3936559 | 20184608.6 | German |
| 3937118 | Huawei Technologies Co., Ltd.                                                                           | 23/03/2020 | 3937118 | 20778929.8 |        |
| 3937165 | Beijing Jingdong Shangke Information Technology Co., Ltd.<br>Beijing Jingdong Century Trading Co., Ltd. | 30/03/2020 | 3937165 | 20783784.0 |        |
| 3937854 | Aesculap AG                                                                                             | 13/03/2020 | 3937854 | 20712270.6 | German |
| 3941133 | Huawei Technologies Co., Ltd.                                                                           | 03/04/2020 | 3941133 | 20785323.5 |        |
| 3941602 | Google LLC                                                                                              | 18/03/2020 | 3941602 | 20718973.9 |        |
| 3941949 | ExxonMobil Chemical Patents Inc.                                                                        | 04/03/2020 | 3941949 | 20718865.7 |        |
| 3942725 | Samsung Electronics Co., Ltd.                                                                           | 22/06/2020 | 3942725 | 20826466.3 |        |
| 3943726 | PACCAR INC                                                                                              | 20/07/2021 | 3943726 | 21186756.9 |        |
| 3944192 | Dassault Systèmes                                                                                       | 22/07/2020 | 3944192 | 20305844.1 |        |
| 3944505 | Huawei Technologies Co., Ltd.                                                                           | 14/12/2020 | 3944505 | 20905945.0 |        |
| 3944551 | Samsung Electronics Co., Ltd.                                                                           | 04/04/2016 | 3944551 | 21197185.8 |        |
| 3945605 | Commissariat à l'Energie Atomique et aux Energies Alternatives                                          | 19/07/2021 | 3945605 | 21186291.7 | French |
| 3947603 | BioBTX B.V.                                                                                             | 27/03/2020 | 3947603 | 20715494.9 |        |
| 3948780 | Howmedica Osteonics Corp.                                                                               | 18/03/2020 | 3948780 | 20717537.3 |        |
| 3948781 | Howmedica Osteonics Corp.                                                                               | 18/03/2020 | 3948781 | 20719818.5 |        |
| 3950647 | Fertinagro Biotech, S.L.                                                                                | 27/03/2019 | 3950647 | 19920913.1 |        |
| 3950763 | NHK Spring Co., Ltd.                                                                                    | 17/12/2019 | 3950763 | 19921581.5 |        |
| 3950832 | Kaneka Corporation                                                                                      | 19/03/2020 | 3950832 | 20777726.9 |        |
| 3950833 | Sucool Technology (Shenzhen) Co., Ltd.                                                                  | 23/03/2020 | 3950833 | 20782688.4 |        |
| 3950952 | F. Hoffmann-La Roche AG                                                                                 | 08/12/2017 | 3950952 | 21192870.0 |        |
| 3952130 | KMW Inc.                                                                                                | 02/12/2020 | 3952130 | 20895996.5 |        |
| 3952187 | Datang Mobile Communications Equipment Co., Ltd.                                                        | 10/01/2020 | 3952187 | 20783481.3 |        |
| 3952353 | HUAWEI TECHNOLOGIES CO., LTD.                                                                           | 23/04/2020 | 3952353 | 20799394.0 |        |
| 3952402 | Huawei Technologies Co., Ltd.                                                                           | 27/04/2020 | 3952402 | 20799000.3 |        |
| 3952495 | Spreadtrum Communications (Shanghai) Co., Ltd.                                                          | 05/03/2020 | 3952495 | 20782318.8 |        |
| 3953526 | Kadant Lamort                                                                                           | 18/03/2020 | 3953526 | 20711182.4 |        |
| 3953610 | Serapid - France                                                                                        | 03/04/2020 | 3953610 | 20715391.7 | French |
| 3954153 | QUALCOMM INCORPORATED                                                                                   | 30/03/2020 | 3954153 | 20721984.1 |        |
| 3955636 | Vivo Mobile Communication Co., Ltd.                                                                     | 09/04/2020 | 3955636 | 20788041.0 |        |
| 3955828 | Suturegard Medical, Inc.                                                                                | 20/09/2019 | 3955828 | 19925534.0 |        |
| 3956180 | Zephyros, Inc.                                                                                          | 16/04/2020 | 3956180 | 20725736.1 |        |
| 3956426 | One Home Brands, Inc.                                                                                   | 07/04/2020 | 3956426 | 20722841.2 |        |
| 3956635 | Dreamwaves GmbH                                                                                         | 27/01/2020 | 3956635 | 20702283.1 |        |
| 3956789 | Schneider Electric USA, Inc.                                                                            | 20/05/2020 | 3956789 | 20809578.6 |        |
| 3957571 | Kitagawa Industries Co., Ltd.                                                                           | 13/04/2020 | 3957571 | 20790808.8 |        |
| 3957853 | Project Phoenix, LLC                                                                                    | 02/06/2015 | 3957853 | 21201681.0 |        |
| 3958635 | Huawei Technologies Co., Ltd.                                                                           | 08/01/2016 | 3958635 | 21180007.3 |        |
| 3959070 | NIKE Innovate C.V.                                                                                      | 24/04/2020 | 3959070 | 20726595.0 |        |

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| 3959283 | Bostik SA                                              | 23/04/2020 | 3959283 | 20754312.5 | French |
| 3960620 | General Electric Company                               | 18/08/2021 | 3960620 | 21191992.3 |        |
| 3961904 | MITSUBISHI ELECTRIC CORPORATION                        | 25/04/2019 | 3961904 | 19926264.3 |        |
| 3962942 | Novo Nordisk A/S                                       | 30/04/2020 | 3962942 | 20728590.9 |        |
| 3963167 | Oil States Industries (UK) Limited                     | 01/05/2020 | 3963167 | 20726520.8 |        |
| 3963356 | Mouro Labs, S.L.                                       | 23/04/2020 | 3963356 | 20721223.4 |        |
| 3963814 | QUALCOMM INCORPORATED                                  | 01/05/2020 | 3963814 | 20727882.1 |        |
| 3965222 | Prime Planet Energy & Solutions, Inc.                  | 26/08/2021 | 3965222 | 21193342.9 |        |
| 3966092 | Caterpillar Inc.                                       | 13/04/2020 | 3966092 | 20801486.0 |        |
| 3966855 | WiTrins s.r.o.                                         | 05/05/2020 | 3966855 | 20724089.6 | German |
| 3967025 | Samsung Electronics Co., Ltd.                          | 07/05/2020 | 3967025 | 20806578.9 |        |
| 3967123 | Müthing GmbH & Co. KG                                  | 02/09/2021 | 3967123 | 21194467.3 | German |
| 3967868 | V-Stax, LLC                                            | 09/05/2011 | 3967868 | 21187972.1 |        |
| 3968080 | Himax Technologies Limited                             | 27/08/2020 | 3968080 | 21204125.5 |        |
| 3968170 | ZTE Corporation                                        | 22/05/2020 | 3968170 | 20815545.7 |        |
| 3968483 | Wobben Properties GmbH                                 | 01/03/2013 | 3968483 | 21201036.7 | German |
| 3968697 | Nokia Technologies Oy                                  | 11/09/2020 | 3968697 | 20195618.2 |        |
| 3968720 | Electronics and Telecommunications Research Institute  | 06/05/2020 | 3968720 | 20802041.2 |        |
| 3968851 | Opsens Inc.                                            | 13/05/2020 | 3968851 | 20809235.3 |        |
| 3970142 | Google LLC                                             | 08/02/2021 | 3970142 | 21710117.9 |        |
| 3970684 | Smith, William<br>Smith, Cameron<br>Rainville, Dominic | 12/07/2021 | 3970684 | 21185166.2 |        |
| 3971331 | Mitsuboshi Belting Ltd.                                | 15/05/2020 | 3971331 | 20806652.2 |        |
| 3971670 | Fluid Intelligence Oy                                  | 15/09/2021 | 3971670 | 21196842.5 |        |
| 3971962 | Huawei Technologies Co., Ltd.                          | 13/09/2021 | 3971962 | 21196336.8 |        |
| 3972599 | Ardelyx, Inc.                                          | 21/05/2020 | 3972599 | 20730955.0 |        |
| 3973098 | Low & Bonar Inc.                                       | 20/05/2020 | 3973098 | 20728205.4 |        |
| 3973238 | VALEO SYSTEMES THERMIQUES                              | 18/05/2020 | 3973238 | 20729959.5 | French |
| 3973689 | Aeris Communications, Inc.                             | 20/05/2020 | 3973689 | 20809507.5 |        |
| 3974503 | Shin-Etsu Chemical Co., Ltd.                           | 20/05/2020 | 3974503 | 20810598.1 |        |
| 3974969 | Huawei Technologies Co., Ltd.                          | 09/07/2020 | 3974969 | 20839633.3 |        |
| 3975920 | Solventum Intellectual Properties Company              | 20/05/2020 | 3975920 | 20815123.3 |        |
| 3976842 | Salzgitter Flachstahl GmbH                             | 25/05/2020 | 3976842 | 20728468.8 | German |
| 3976981 | XR Reserve LLC                                         | 24/05/2020 | 3976981 | 20813173.0 |        |
| 3978048 | Becton, Dickinson and Company                          | 08/06/2017 | 3978048 | 21207117.9 |        |
| 3978506 | Zhuohe Pharmaceutical Group Co., Ltd                   | 29/05/2020 | 3978506 | 20815146.4 |        |
| 3979571 | Huawei Technologies Co. Ltd.                           | 20/07/2020 | 3979571 | 20848157.2 |        |
| 3980238 | I4F LICENSING NV                                       | 23/07/2019 | 3980238 | 19931608.4 |        |
| 3980718 | Amazon Technologies, Inc.                              | 09/06/2020 | 3980718 | 20750518.1 |        |
| 3980952 | Seegrid Corporation                                    | 04/06/2020 | 3980952 | 20819430.8 |        |
| 3982571 | Nokia Technologies Oy                                  | 09/10/2020 | 3982571 | 20201026.0 |        |
| 3982771 | KT&G Corporation                                       | 06/09/2021 | 3982771 | 21836312.5 |        |
| 3983794 | Laboratory Corporation of America Holdings             | 12/06/2020 | 3983794 | 20751773.1 |        |
| 3984256 | Nokia Technologies Oy                                  | 23/04/2020 | 3984256 | 20723042.6 |        |
| 3985328 | DAIKIN INDUSTRIES, LTD.                                | 11/06/2020 | 3985328 | 20821885.9 |        |
| 3986110 | Amazonen-Werke H. Dreyer SE & Co. KG                   | 19/05/2020 | 3986110 | 20727242.8 | German |
| 3986327 | Smylio Inc.                                            | 19/06/2020 | 3986327 | 20825576.0 |        |
| 3986977 | Huntsman Petrochemical LLC                             | 14/05/2020 | 3986977 | 20826107.3 |        |
| 3986990 | Europeenne de Biomasse                                 | 17/06/2020 | 3986990 | 20742356.7 | French |
| 3988711 | Seiren Co., Ltd.                                       | 12/05/2020 | 3988711 | 20831555.6 |        |
| 3989043 | Sony Group Corporation                                 | 08/05/2013 | 3989043 | 21193046.6 |        |
| 3989481 | Samsung Electronics Co., Ltd.                          | 13/07/2021 | 3989481 | 21185276.9 |        |
| 3989813 | ResMed Pty Ltd                                         | 26/06/2020 | 3989813 | 20832132.3 |        |
| 3990823 | Valeo Vision                                           | 23/06/2020 | 3990823 | 20734191.8 | French |
| 3991003 | ADTRAN, Inc.                                           | 26/06/2020 | 3991003 | 20833549.7 |        |
| 3991097 | Microsoft Technology Licensing, LLC                    | 04/05/2020 | 3991097 | 20727110.7 |        |
| 3991365 | Huawei Technologies Co. Ltd.                           | 31/07/2019 | 3991365 | 19752409.3 |        |
| 3991852 | Alfa Laval Corporate AB                                | 02/11/2020 | 3991852 | 20205178.5 |        |

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| 3992293 | Heilongjiang Eppen Biotech Co., Ltd.                                                      | 27/08/2020 | 3992293 | 20859580.1 | French |
| 3992497 | ArvinMeritor Technology, LLC                                                              | 29/10/2021 | 3992497 | 21205612.1 |        |
| 3994399 | Prieur, Andre                                                                             | 03/07/2020 | 3994399 | 20750304.6 |        |
| 3994842 | LG Electronics Inc.<br>University of São Paulo                                            | 13/05/2020 | 3994842 | 20806234.9 |        |
| 3995534 | Gaia Plas Berhad                                                                          | 19/07/2021 | 3995534 | 21186321.2 | French |
| 3995903 | Canon Kabushiki Kaisha                                                                    | 24/01/2020 | 3995903 | 21208684.7 |        |
| 3996106 | Coloplast A/S                                                                             | 20/12/2018 | 3996106 | 21211492.0 |        |
| 3996572 | LSI Solutions, Inc.                                                                       | 13/08/2020 | 3996572 | 20852461.1 |        |
| 3997430 | Horiba Instruments Incorporated                                                           | 10/07/2020 | 3997430 | 20836613.8 | French |
| 3997587 | T2 Data AB                                                                                | 10/06/2020 | 3997587 | 20733230.5 |        |
| 3997605 | ANCHOR LABS, INC.                                                                         | 28/07/2020 | 3997605 | 20754121.0 |        |
| 3999551 | Integrity Bio-Chemicals, LLC                                                              | 16/07/2020 | 3999551 | 20841375.7 |        |
| 4001059 | JFE Steel Corporation                                                                     | 25/03/2020 | 4001059 | 20840718.9 | German |
| 4001650 | MITSUBISHI ELECTRIC<br>CORPORATION                                                        | 16/07/2019 | 4001650 | 19937692.2 |        |
| 4001948 | Naver Corporation                                                                         | 13/11/2020 | 4001948 | 20306380.5 |        |
| 4002183 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                         | 22/11/2021 | 4002183 | 21209699.4 |        |
| 4002473 | Samsung Display Co., Ltd.                                                                 | 18/08/2021 | 4002473 | 21192011.1 | German |
| 4003462 | Henke-Sass, Wolf GmbH                                                                     | 09/07/2020 | 4003462 | 20739950.2 |        |
| 4003464 | Henke-Sass, Wolf GmbH                                                                     | 09/07/2020 | 4003464 | 20740279.3 |        |
| 4003515 | Victor Chang Cardiac Research Institute<br>National Cerebral and Cardiovascular<br>Center | 30/07/2020 | 4003515 | 20846139.2 |        |
| 4003754 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                         | 10/07/2020 | 4003754 | 20739648.2 | German |
| 4003755 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                         | 10/07/2020 | 4003755 | 20739649.0 |        |
| 4003772 | VOLKSWAGEN<br>AKTIENGESELLSCHAFT                                                          | 17/07/2020 | 4003772 | 20746918.0 |        |
| 4004593 | Hewlett-Packard Development Company,<br>L.P.                                              | 26/07/2019 | 4004593 | 19939666.4 |        |
| 4004720 | Oracle International Corporation                                                          | 03/06/2020 | 4004720 | 20747225.9 | German |
| 4004869 | Raytheon Company                                                                          | 25/03/2020 | 4004869 | 20719086.9 |        |
| 4005073 | Eldor Corporation S.p.A.                                                                  | 29/07/2020 | 4005073 | 20750158.6 |        |
| 4005099 | QUALCOMM INCORPORATED                                                                     | 25/06/2020 | 4005099 | 20740767.7 |        |
| 4006301 | Weatherford Technology Holdings, LLC                                                      | 24/10/2017 | 4006301 | 22152958.9 | German |
| 4006418 | ERLUS AKTIENGESELLSCHAFT                                                                  | 23/11/2021 | 4006418 | 21209761.2 |        |
| 4006466 | Hisense Refrigerator Co., Ltd.                                                            | 17/06/2020 | 4006466 | 20851365.5 |        |
| 4006813 | Wayne Fueling Systems LLC                                                                 | 27/12/2016 | 4006813 | 21214354.9 |        |
| 4007390 | Huawei Technologies Co., Ltd.                                                             | 05/08/2020 | 4007390 | 20849456.7 | German |
| 4007562 | Henkel AG & Co. KGaA                                                                      | 08/06/2020 | 4007562 | 20731848.6 |        |
| 4008169 | Amazonen-Werke H. Dreyer SE & Co. KG                                                      | 29/11/2021 | 4008169 | 21401049.8 |        |
| 4009004 | TE Connectivity Sensors Germany GmbH                                                      | 02/12/2020 | 4009004 | 20211153.0 |        |
| 4009756 | SOLUM CO., LTD.                                                                           | 02/12/2021 | 4009756 | 21211900.2 | German |
| 4010185 | Adler Evo S.r.l.                                                                          | 06/08/2020 | 4010185 | 20764772.8 |        |
| 4010310 | LyondellBasell Acetyls, LLC                                                               | 04/08/2020 | 4010310 | 20758041.6 |        |
| 4011082 | Sharp Kabushiki Kaisha                                                                    | 06/08/2020 | 4011082 | 20850619.6 |        |
| 4012197 | Kronenberg, Ralf M.                                                                       | 06/12/2021 | 4012197 | 21212529.8 | German |
| 4012573 | Huawei Technologies Co., Ltd.                                                             | 07/08/2020 | 4012573 | 20851622.9 |        |
| 4012726 | Daicel Corporation                                                                        | 04/08/2020 | 4012726 | 20850274.0 |        |
| 4013133 | Huawei Technologies Co., Ltd.                                                             | 13/08/2020 | 4013133 | 20852654.1 |        |
| 4013253 | NIKE Innovate C.V.                                                                        | 11/08/2020 | 4013253 | 20761445.4 |        |
| 4013352 | Edwards Lifesciences Corporation                                                          | 28/07/2020 | 4013352 | 20757075.5 |        |
| 4017317 | Inter IKEA Systems B.V.                                                                   | 21/08/2020 | 4017317 | 20854811.5 |        |
| 4017440 | Mackool, Richard                                                                          | 21/05/2020 | 4017440 | 20855044.2 |        |
| 4017556 | Istanbul Medipol Universitesi                                                             | 21/08/2020 | 4017556 | 20855767.8 |        |
| 4017611 | Valero Services, Inc.                                                                     | 12/08/2020 | 4017611 | 20855473.3 |        |
| 4018034 | Valmet Technologies Oy                                                                    | 18/08/2020 | 4018034 | 20761874.5 |        |
| 4018051 | USG Interiors, LLC                                                                        | 13/08/2020 | 4018051 | 20761478.5 |        |
| 4018775 | 3M Innovative Properties Company                                                          | 04/08/2020 | 4018775 | 20857258.6 |        |

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| 4019194 | Robert Bosch GmbH                                                         | 23/11/2021 | 4019194 | 21209764.6 | German |
| 4019471 | Wota Corp.                                                                | 13/07/2020 | 4019471 | 20858032.4 |        |
| 4020148 | Nokia Technologies Oy                                                     | 22/12/2020 | 4020148 | 20216481.0 | German |
| 4020365 | Sgrouples, Inc.                                                           | 14/05/2013 | 4020365 | 21212289.9 |        |
| 4020382 | Ricoh Company, Ltd.                                                       | 17/12/2021 | 4020382 | 21215772.1 | German |
| 4020467 | GN Hearing A/S                                                            | 29/11/2021 | 4020467 | 21211123.1 |        |
| 4020915 | Huawei Technologies Co., Ltd.                                             | 28/08/2020 | 4020915 | 20858281.7 | German |
| 4020964 | Huawei Technologies Co., Ltd.                                             | 17/08/2020 | 4020964 | 20855950.0 |        |
| 4021065 | HUAWEI TECHNOLOGIES CO., LTD.                                             | 12/09/2019 | 4021065 | 19945060.2 | German |
| 4021746 | Sew-Eurodrive GmbH & Co. KG                                               | 23/07/2020 | 4021746 | 20750592.6 |        |
| 4021932 | Max-Delbrück-Centrum für Molekulare Medizin in der Helmholtz-Gemeinschaft | 28/08/2020 | 4021932 | 20761259.9 | German |
| 4022071 | Oterra A/S                                                                | 25/08/2020 | 4022071 | 20760864.7 |        |
| 4022889 | Aarhus University                                                         |            |         |            | German |
| 4022889 | Huawei Technologies Co. Ltd.                                              | 21/09/2020 | 4022889 | 20847067.4 |        |
| 4023149 | Huawei Technologies Co., Ltd.                                             | 02/09/2020 | 4023149 | 20871855.1 | German |
| 4023698 | Mitsubishi Chemical Corporation                                           | 28/08/2020 | 4023698 | 20858320.3 |        |
| 4023752 | Carbios                                                                   | 30/12/2020 | 4023752 | 20306708.7 | German |
| 4024448 | NXP USA, Inc.                                                             | 22/11/2021 | 4024448 | 21209628.3 |        |
| 4024817 | Huawei Technologies Co., Ltd.                                             | 03/09/2020 | 4024817 | 20861513.8 | German |
| 4024965 | Vivo Mobile Communication Co., Ltd.                                       | 25/09/2020 | 4024965 | 20872549.9 |        |
| 4024974 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                       | 14/08/2020 | 4024974 | 20869237.6 | German |
| 4025143 | Leith Medical, LLC                                                        | 13/10/2020 | 4025143 | 20800483.8 |        |
| 4025771 | GE Vernova Technology GmbH                                                | 24/08/2020 | 4025771 | 20765445.0 | German |
| 4025858 | SPIG S.p.A.                                                               | 03/09/2020 | 4025858 | 20861515.3 |        |
| 4025892 | Pierre Fabre Dermo-Cosmétique                                             | 03/09/2020 | 4025892 | 20764107.7 | French |
| 4025925 | CDO2 Limited                                                              | 04/09/2020 | 4025925 | 20768680.9 |        |
| 4025940 | Schlumberger Technology B.V.                                              | 04/09/2020 | 4025940 | 20775988.7 | German |
| 4026216 | Sew-Eurodrive GmbH & Co. KG                                               | 06/08/2020 | 4026216 | 20758117.4 |        |
| 4027009 | General Electric Renovables España S.L.                                   | 03/01/2022 | 4027009 | 22150054.9 | German |
| 4027167 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                       | 18/09/2020 | 4027167 | 20869392.9 |        |
| 4027231 | Huawei Technologies Co. Ltd.                                              | 24/09/2020 | 4027231 | 20869312.7 | German |
| 4027323 | Huawei Technologies Co., Ltd.                                             | 24/07/2020 | 4027323 | 20882764.2 |        |
| 4027338 | Ai Speech Co., Ltd.                                                       | 25/11/2019 | 4027338 | 19944180.9 | German |
| 4027743 | Huawei Technologies Co. Ltd.                                              | 18/09/2020 | 4027743 | 20871496.4 |        |
| 4028662 | Gudesen, Hans Gude                                                        | 08/09/2020 | 4028662 | 20862924.6 | German |
| 4029119 | Schaeffler Technologies AG & Co. KG                                       | 25/08/2020 | 4029119 | 20767722.0 |        |
| 4029237 | Google LLC                                                                | 20/08/2020 | 4029237 | 20768154.5 | German |
| 4030697 | Huawei Technologies Co., Ltd.                                             | 30/09/2019 | 4030697 | 19947793.6 |        |
| 4030959 | Phil and Teds Design Limited                                              | 03/09/2020 | 4030959 | 20864565.5 | German |
| 4032842 | TMT Machinery, Inc.                                                       | 11/01/2022 | 4032842 | 22150929.2 |        |
| 4032843 | TMT Machinery, Inc.                                                       | 16/12/2021 | 4032843 | 21215063.5 | German |
| 4033728 | Juniper Networks, Inc.                                                    | 23/03/2021 | 4033728 | 21164185.7 |        |
| 4033834 | Huawei Technologies Co. Ltd.                                              | 08/11/2019 | 4033834 | 19952017.2 | German |
| 4035153 | Shenzhen Shokz Co., Ltd.                                                  | 12/12/2019 | 4035153 | 19955436.1 |        |
| 4035582 | LG Electronics Inc.                                                       | 31/01/2022 | 4035582 | 22154159.2 | German |
| 4036207 | F. Hoffmann-La Roche AG                                                   | 13/01/2012 | 4036207 | 21187619.8 |        |
| 4036444 | Eagle Industry Co., Ltd.                                                  | 17/09/2020 | 4036444 | 20868996.8 | German |
| 4036489 | Komoo Intelligent Technology Co., Ltd                                     | 19/05/2020 | 4036489 | 20868783.0 |        |
| 4036792 | Aptiv Technologies AG                                                     | 29/01/2021 | 4036792 | 21154378.0 | German |
| 4037261 | Huawei Technologies Co., Ltd.                                             | 27/09/2020 | 4037261 | 20878944.6 |        |
| 4037385 | Vivo Mobile Communication Co., Ltd.                                       | 21/09/2020 | 4037385 | 20869281.4 | German |
| 4038132 | DDP Specialty Electronic Materials US, LLC                                | 29/09/2020 | 4038132 | 20799865.9 |        |
| 4039997 | Nabuurs, Martinus Johannes Hendricus Wilhelmus                            | 07/02/2022 | 4039997 | 22155454.6 | German |
| 4040127 | NITTO DENKO CORPORATION                                                   | 16/09/2020 | 4040127 | 20871047.5 |        |
| 4040410 | Cogelec                                                                   | 25/01/2022 | 4040410 | 22153099.1 | French |
| 4042494 | Western Digital Technologies Inc.                                         | 19/05/2021 | 4042494 | 21837735.6 |        |
| 4043134 | Techtronic Cordless GP                                                    | 08/12/2021 | 4043134 | 21213056.1 | French |
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| 4043918 | Aptiv Technologies AG                                                         | 25/01/2022 | 4043918 | 22153190.8 |        |
| 4044088 | Wayne Fueling Systems LLC                                                     | 14/06/2017 | 4044088 | 22157249.8 |        |
| 4044370 | Huawei Technologies Co., Ltd.                                                 | 02/11/2020 | 4044370 | 20890178.5 |        |
| 4044546 | Huawei Technologies Co., Ltd.                                                 | 25/09/2020 | 4044546 | 20883473.9 |        |
| 4044601 | Seiko Epson Corporation                                                       | 08/02/2022 | 4044601 | 22155538.6 |        |
| 4044631 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                       | 02/01/2020 | 4044631 | 20908818.6 |        |
| 4045341 | Scharmüller, Christine<br>Scharmüller, Josef                                  | 01/10/2020 | 4045341 | 20785742.6 | German |
| 4047887 | Huawei Technologies Co., Ltd.                                                 | 28/09/2020 | 4047887 | 20888015.3 |        |
| 4047911 | Deutsche Telekom AG                                                           | 23/02/2021 | 4047911 | 21158702.7 | German |
| 4047993 | Huawei Technologies Co., Ltd.                                                 | 14/11/2019 | 4047993 | 19952662.5 |        |
| 4048946 | A.J. Wells & Sons Limited                                                     | 09/10/2020 | 4048946 | 20796886.8 |        |
| 4050403 | Alcon Inc.                                                                    | 24/01/2018 | 4050403 | 22167651.3 |        |
| 4050410 | Solutia Canada Inc.                                                           | 06/03/2014 | 4050410 | 22169076.1 |        |
| 4050488 | Shopify Inc.                                                                  | 23/08/2021 | 4050488 | 21192678.7 |        |
| 4050529 | Hitachi, Ltd.                                                                 | 20/01/2022 | 4050529 | 22152409.3 |        |
| 4050853 | Jingdong Technology Holding Co., Ltd.                                         | 08/12/2020 | 4050853 | 20905783.5 |        |
| 4051073 | SharkNinja Operating LLC                                                      | 30/10/2020 | 4051073 | 20883292.3 |        |
| 4051554 | thyssenkrupp Presta AG<br>thyssenkrupp AG                                     | 21/10/2020 | 4051554 | 20797066.6 | German |
| 4051567 | Rosenxt Holding AG                                                            | 02/11/2020 | 4051567 | 20811534.5 | German |
| 4052070 | Universitetet I Oslo                                                          | 23/10/2020 | 4052070 | 20816089.5 |        |
| 4052771 | Suntory Holdings Limited                                                      | 30/10/2020 | 4052771 | 20883548.8 |        |
| 4052949 | Beijing Jingdong Qianshi Technology Co.,<br>Ltd.                              | 18/12/2020 | 4052949 | 20913388.3 |        |
| 4053615 | Letinar Co., Ltd                                                              | 26/10/2020 | 4053615 | 20883366.5 |        |
| 4053738 | Tata Consultancy Services Limited                                             | 30/06/2021 | 4053738 | 21182895.9 |        |
| 4053799 | Imagination Technologies Limited                                              | 17/05/2018 | 4053799 | 22166417.0 |        |
| 4054419 | Samsung Electronics Co., Ltd.                                                 | 19/11/2020 | 4054419 | 20898543.2 |        |
| 4055638 | Heliatek GmbH                                                                 | 05/11/2020 | 4055638 | 20816390.7 | German |
| 4056844 | General Electric Renovables España S.L.                                       | 12/03/2021 | 4056844 | 21382205.9 |        |
| 4057233 | Siemens Healthineers AG                                                       | 10/03/2021 | 4057233 | 21161885.5 |        |
| 4057985 | Unilever Global IP Limited                                                    | 10/11/2020 | 4057985 | 20801290.6 |        |
| 4058137 | Universität des Saarlandes                                                    | 13/11/2020 | 4058137 | 20820788.6 | German |
| 4058346 | Seldén Mast AB                                                                | 21/09/2020 | 4058346 | 20792768.2 |        |
| 4059179 | Apple Inc.                                                                    | 12/02/2020 | 4059179 | 20919079.2 |        |
| 4059186 | Noname Gate Ltd.                                                              | 19/01/2022 | 4059186 | 22701510.4 |        |
| 4060136 | Sanitea S.R.L.                                                                | 14/03/2022 | 4060136 | 22161864.8 |        |
| 4060903 | NXP B.V.                                                                      | 07/03/2022 | 4060903 | 22160517.3 |        |
| 4061078 | Huawei Technologies Co., Ltd.                                                 | 11/11/2020 | 4061078 | 20895523.7 |        |
| 4061576 | ARATA Technologies Oy                                                         | 16/11/2020 | 4061576 | 20815891.5 |        |
| 4062127 | Tesla, Inc.                                                                   | 20/11/2020 | 4062127 | 20825318.7 |        |
| 4062128 | Resonant Acoustics International Inc.                                         | 17/11/2020 | 4062128 | 20889452.7 |        |
| 4062214 | Danmarks Tekniske Universitet                                                 | 18/11/2020 | 4062214 | 20804598.9 |        |
| 4062647 | W.S.C. Sports Technologies Ltd.                                               | 19/11/2020 | 4062647 | 20890225.4 |        |
| 4062694 | Nokia Technologies Oy                                                         | 20/11/2019 | 4062694 | 19832753.8 |        |
| 4062848 | Erbe Elektromedizin GmbH                                                      | 25/03/2021 | 4062848 | 21164843.1 | German |
| 4063543 | Pinter Caipo, S.A.U.                                                          | 23/03/2021 | 4063543 | 21382231.5 |        |
| 4063650 | Siemens Gamesa Renewable Energy A/S                                           | 24/03/2021 | 4063650 | 21164585.8 |        |
| 4063747 | EMC FIME S.R.L.                                                               | 24/03/2022 | 4063747 | 22164004.8 |        |
| 4063909 | Aptiv Technologies AG                                                         | 01/03/2022 | 4063909 | 22159342.9 |        |
| 4063936 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                       | 24/11/2020 | 4063936 | 20896939.4 |        |
| 4063974 | ABB Schweiz AG                                                                | 23/03/2021 | 4063974 | 21164229.3 |        |
| 4064424 | Eve Energy Co., Ltd.                                                          | 03/09/2020 | 4064424 | 20949250.3 |        |
| 4064617 | Huawei Technologies Co., Ltd.                                                 | 25/12/2019 | 4064617 | 19957859.2 |        |
| 4064628 | Bull SAS<br>Commissariat à l'Energie Atomique et aux<br>Energies Alternatives | 24/03/2021 | 4064628 | 21305370.5 | French |
| 4065016 | Spine23 Inc.                                                                  | 25/11/2020 | 4065016 | 20828793.8 |        |

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| 4065256 | Université Grenoble Alpes<br>Institut Polytechnique de Grenoble<br>Centre national de la recherche scientifique | 24/11/2020 | 4065256 | 20821354.6 | French |
| 4065757 | Texon Management Limited                                                                                        | 27/11/2020 | 4065757 | 20828025.5 |        |
| 4065965 | F. Hoffmann-La Roche AG                                                                                         | 25/11/2020 | 4065965 | 20811333.2 |        |
| 4065966 | F. Hoffmann-La Roche AG                                                                                         | 25/11/2020 | 4065966 | 20811334.0 |        |
| 4066188 | MATRIXCARE, INC.                                                                                                | 23/11/2020 | 4066188 | 20829055.1 |        |
| 4066416 | ZTE Corporation                                                                                                 | 07/08/2020 | 4066416 | 20948124.1 |        |
| 4067140 | Nio Technology (Anhui) Co., Ltd                                                                                 | 17/03/2022 | 4067140 | 22162695.5 |        |
| 4067354 | Daewoong Pharmaceutical Co., Ltd.                                                                               | 25/11/2020 | 4067354 | 20892809.3 |        |
| 4068163 | Palo Alto Research Center Incorporated                                                                          | 18/03/2022 | 4068163 | 22163100.5 |        |
| 4068288 | Samsung Electronics Co., Ltd.                                                                                   | 02/02/2022 | 4068288 | 22154777.1 |        |
| 4068327 | Legrand France<br>Legrand SNC                                                                                   | 01/04/2022 | 4068327 | 22166382.6 | French |
| 4068370 | LG Electronics Inc.                                                                                             | 23/01/2020 | 4068370 | 20892788.9 |        |
| 4068693 | Nokia Solutions and Networks Oy                                                                                 | 30/03/2021 | 4068693 | 21165759.8 |        |
| 4069057 | Alcon Inc.                                                                                                      | 01/12/2020 | 4069057 | 20829080.9 |        |
| 4069336 | Shine, Ian Basil<br>Shine, Thomas Adam                                                                          | 04/12/2020 | 4069336 | 20897136.6 |        |
| 4070154 | Signify Holding B.V.                                                                                            | 23/11/2020 | 4070154 | 20808138.0 |        |
| 4070724 | SEKISUI CHEMICAL CO., LTD.                                                                                      | 02/12/2020 | 4070724 | 20895329.9 |        |
| 4070755 | Intuitive Surgical Operations, Inc.                                                                             | 31/05/2013 | 4070755 | 22174713.2 |        |
| 4070965 | Plus Corporation                                                                                                | 13/01/2021 | 4070965 | 21908079.3 |        |
| 4071600 | Quadient Software Inc.                                                                                          | 05/04/2022 | 4071600 | 22166701.7 |        |
| 4071747 | Samsung Display Co., Ltd.                                                                                       | 28/03/2022 | 4071747 | 22164814.0 |        |
| 4072176 | Huawei Technologies Co., Ltd.                                                                                   | 17/01/2020 | 4072176 | 20913193.7 |        |
| 4072941 | AeroVironment, Inc.                                                                                             | 07/12/2020 | 4072941 | 20897697.7 |        |
| 4072994 | Universiteit Gent                                                                                               | 08/12/2020 | 4072994 | 20817382.3 |        |
| 4073703 | Google LLC                                                                                                      | 30/03/2020 | 4073703 | 20720887.7 |        |
| 4074100 | ZTE Corporation                                                                                                 | 30/06/2020 | 4074100 | 20943215.2 |        |
| 4074152 | VALEO SYSTEMES THERMIQUES                                                                                       | 02/12/2020 | 4074152 | 20828545.2 | French |
| 4074267 | Lifetech Scientific (Shenzhen) Co., Ltd.                                                                        | 25/11/2020 | 4074267 | 20898840.2 |        |
| 4074348 | Schaeffler, Heinrich                                                                                            | 17/03/2022 | 4074348 | 22020114.9 | German |
| 4074822 | CJ Cheiljedang Corporation<br>Korea Advanced Institute of Science and Technology                                | 20/01/2021 | 4074822 | 21743844.9 |        |
| 4074909 | Big Time Investment, LLC                                                                                        | 13/04/2022 | 4074909 | 22168127.3 |        |
| 4075160 | Toyoda Gosei Co., Ltd.                                                                                          | 03/12/2020 | 4075160 | 20913656.3 |        |
| 4075612 | Goneo Group Co., Ltd.                                                                                           | 23/03/2021 | 4075612 | 21852854.5 |        |
| 4075905 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                         | 24/12/2019 | 4075905 | 19957360.1 |        |
| 4076249 | Materialise NV                                                                                                  | 11/12/2020 | 4076249 | 20838814.0 |        |
| 4077801 | Stora Enso Oyj                                                                                                  | 18/12/2020 | 4077801 | 20901522.1 |        |
| 4077868 | D-Tech UK Ltd                                                                                                   | 16/12/2020 | 4077868 | 20828351.5 |        |
| 4078043 | Rheem Manufacturing Company                                                                                     | 17/12/2020 | 4078043 | 20903629.2 |        |
| 4078340 | Granica Computing, Inc.                                                                                         | 17/12/2020 | 4078340 | 20903954.4 |        |
| 4079244 | Biosense Webster (Israel) Ltd.                                                                                  | 19/04/2022 | 4079244 | 22168805.4 |        |
| 4079476 | Mitsubishi Heavy Industries Machinery<br>Systems, Ltd.                                                          | 20/01/2021 | 4079476 | 21748015.1 |        |
| 4079985 | Dauksch, Enrico                                                                                                 | 25/04/2022 | 4079985 | 22169672.7 | German |
| 4080678 | Huawei Technologies Co., Ltd.                                                                                   | 06/01/2021 | 4080678 | 21741742.7 |        |
| 4080861 | Huawei Technologies Co., Ltd.                                                                                   | 02/11/2020 | 4080861 | 20916067.0 |        |
| 4080932 | Huawei Technologies Co., Ltd.                                                                                   | 06/01/2021 | 4080932 | 21738691.1 |        |
| 4080974 | Huawei Technologies Co., Ltd.                                                                                   | 26/01/2021 | 4080974 | 21757207.2 |        |
| 4081681 | Stora Enso Oyj                                                                                                  | 22/12/2020 | 4081681 | 20905909.6 |        |
| 4081803 | Fundació Institut d'Investigació en Ciències<br>de la Salut Germans Trias i Pujol (IGTP)                        | 18/12/2020 | 4081803 | 20838477.6 |        |
| 4082052 | Dracula Technologies                                                                                            | 23/12/2020 | 4082052 | 20851232.7 | French |
| 4082167 | Capital One Services, LLC                                                                                       | 23/11/2020 | 4082167 | 20820735.7 |        |
| 4082168 | Capital One Services, LLC                                                                                       | 23/11/2020 | 4082168 | 20825353.4 |        |
| 4082268 | ZTE Corporation                                                                                                 | 13/02/2020 | 4082268 | 20886670.7 |        |
| 4082638 | Nintendo Co., Ltd.                                                                                              | 18/09/2020 | 4082638 | 20916924.2 |        |



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| 4082646 | Lleal, S.A.U.                                                                                                                            | 29/04/2021 | 4082646 | 21382376.8 |        |
| 4082684 | Proterial, Ltd.                                                                                                                          | 16/12/2020 | 4082684 | 20908430.0 |        |
| 4082798 | Kyocera Corporation                                                                                                                      | 25/12/2020 | 4082798 | 20905889.0 |        |
| 4083244 | Obshchestvo S Ogranichennoy<br>Otvetstvennost'yu "Obedinennaya<br>Kompaniya Rusal Inzhenerno-<br>Tekhnologicheskoy Tsentr"               | 23/11/2020 | 4083244 | 20839158.1 |        |
| 4083456 | NTN Corporation                                                                                                                          | 08/12/2020 | 4083456 | 20904819.8 |        |
| 4083661 | Hamamatsu Photonics K.K.                                                                                                                 | 12/10/2020 | 4083661 | 20905538.3 |        |
| 4083821 | Companhia de Saneamento Básico do<br>Estado De São Paulo - SABESP<br>Universidade Estadual Paulista "Júlio De<br>Mesquita Filho" - UNESP | 16/07/2020 | 4083821 | 20904450.2 |        |
| 4084436 | Shenzhen Yinwang Intelligent Technologies<br>Co., Ltd.                                                                                   | 25/01/2021 | 4084436 | 21745091.5 |        |
| 4084852 | Becton, Dickinson and Company                                                                                                            | 22/12/2020 | 4084852 | 20845313.4 |        |
| 4085561 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                                                  | 30/03/2020 | 4085561 | 20753406.6 |        |
| 4086491 | Suttner GmbH                                                                                                                             | 03/05/2022 | 4086491 | 22171236.7 | German |
| 4087039 | LG Energy Solution, Ltd.                                                                                                                 | 22/04/2021 | 4087039 | 21831819.4 |        |
| 4087071 | Rockwell Automation Technologies, Inc.                                                                                                   | 12/01/2022 | 4087071 | 22151135.5 |        |
| 4088005 | SAFRAN AIRCRAFT ENGINES                                                                                                                  | 08/01/2021 | 4088005 | 21705582.1 | French |
| 4088574 | Nuvo Pharmaceuticals (Ireland) Designated<br>Activity Company                                                                            | 13/05/2022 | 4088574 | 22173252.2 |        |
| 4088989 | Volvo Car Corporation                                                                                                                    | 28/04/2022 | 4088989 | 22170443.0 |        |
| 4089003 | Bote, LLC                                                                                                                                | 20/04/2022 | 4089003 | 22169116.5 |        |
| 4089858 | TE Connectivity Germany GmbH                                                                                                             | 10/05/2022 | 4089858 | 22172467.7 |        |
| 4090066 | Huawei Technologies Co., Ltd.                                                                                                            | 03/02/2020 | 4090066 | 20917727.8 |        |
| 4091283 | QUALCOMM INCORPORATED                                                                                                                    | 29/12/2020 | 4091283 | 20845523.8 |        |
| 4091416 | Bose Corporation                                                                                                                         | 12/01/2021 | 4091416 | 21704069.0 |        |
| 4092068 | Asahi Kasei Kabushiki Kaisha                                                                                                             | 15/01/2021 | 4092068 | 21741616.3 |        |
| 4092218 | Unilin, BV                                                                                                                               | 21/06/2011 | 4092218 | 22184975.5 |        |
| 4092527 | Beijing Zitiao Network Technology Co.,<br>Ltd.                                                                                           | 18/09/2021 | 4092527 | 21871460.8 |        |
| 4092902 | Schneider Electric Industries SAS                                                                                                        | 08/04/2022 | 4092902 | 22167292.6 | French |
| 4093182 | Kverneland Group Ravenna S.r.l.                                                                                                          | 20/01/2021 | 4093182 | 21700647.7 |        |
| 4093523 | Swingball Limited                                                                                                                        | 21/01/2021 | 4093523 | 21702072.6 |        |
| 4094992 | Anhui Wollin International Co., Ltd.                                                                                                     | 30/03/2022 | 4094992 | 22165551.7 |        |
| 4095306 | Gaches Chimie Spécialités                                                                                                                | 25/05/2022 | 4095306 | 22175566.3 | French |
| 4096318 | Huawei Technologies Co., Ltd.                                                                                                            | 14/02/2020 | 4096318 | 20918387.0 |        |
| 4096530 | Paragon 28, Inc.                                                                                                                         | 29/01/2021 | 4096530 | 21747591.2 |        |
| 4096605 | The Procter & Gamble Company                                                                                                             | 31/01/2020 | 4096605 | 20916643.8 |        |
| 4096675 | AIM ImmunoTech Inc.                                                                                                                      | 07/06/2021 | 4096675 | 21818146.9 |        |
| 4098905 | Hamilton Sundstrand Corporation                                                                                                          | 21/04/2022 | 4098905 | 22169302.1 |        |
| 4099048 | Kabushiki Kaisha Toshiba                                                                                                                 | 31/05/2022 | 4099048 | 22176261.0 |        |
| 4099141 | Huawei Technologies Co., Ltd.                                                                                                            | 16/03/2021 | 4099141 | 21776097.4 |        |
| 4099310 | Unilumin Group Co., Ltd.                                                                                                                 | 05/11/2020 | 4099310 | 20937576.5 |        |
| 4099572 | Infineon Technologies AG                                                                                                                 | 31/05/2021 | 4099572 | 21176951.8 |        |
| 4099583 | SHIMADZU CORPORATION<br>Japan Agency for Marine-Earth Science and<br>Technology                                                          | 27/01/2020 | 4099583 | 20916639.6 |        |
| 4099762 | Huawei Technologies Co., Ltd.                                                                                                            | 28/02/2020 | 4099762 | 20921677.9 |        |
| 4101013 | MICRON TECHNOLOGY, INC.                                                                                                                  | 06/01/2021 | 4101013 | 21750001.6 |        |
| 4101864 | Shanxi Jinbo Bio-Pharmaceutical Co., Ltd.                                                                                                | 11/01/2021 | 4101864 | 21749986.2 |        |
| 4101926 | CJ CheilJedang Corporation                                                                                                               | 28/04/2021 | 4101926 | 21870483.1 |        |
| 4102056 | Wobben Properties GmbH                                                                                                                   | 11/06/2021 | 4102056 | 21179051.4 |        |
| 4102181 | THALES                                                                                                                                   | 09/06/2022 | 4102181 | 22178182.6 | French |
| 4102568 | Sony Semiconductor Solutions Corporation                                                                                                 | 22/01/2021 | 4102568 | 21750799.5 |        |
| 4103007 | NIKE Innovate C.V.                                                                                                                       | 05/02/2021 | 4103007 | 21709230.3 |        |
| 4104081 | Disney Enterprises, Inc.                                                                                                                 | 04/01/2021 | 4104081 | 21754551.6 |        |
| 4104523 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                                                                | 14/02/2020 | 4104523 | 20705693.8 |        |

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|---------|------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4104643 | BASF SE                                                                      | 12/02/2021 | 4104643 | 21704552.5 | German |
|         | Linde GmbH                                                                   |            |         |            |        |
| 4105107 | VOLVO TRUCK CORPORATION                                                      | 17/06/2022 | 4105107 | 22179511.5 |        |
| 4105654 | Beijing Sanyuan Foods Co., Ltd.                                              | 30/12/2021 | 4105654 | 21899304.6 |        |
| 4106390 | Vivo Mobile Communication Co., Ltd.                                          | 05/02/2021 | 4106390 | 21753594.7 |        |
| 4106666 | Aydin, Resai                                                                 | 20/02/2020 | 4106666 | 20730128.4 |        |
| 4107569 | Charité Universitätsmedizin Berlin -<br>Körperschaft des öffentlichen Rechts | 17/02/2021 | 4107569 | 21704595.4 |        |
| 4109469 | Tata Consultancy Services Limited                                            | 23/06/2022 | 4109469 | 22180603.7 |        |
| 4109599 | LG Energy Solution, Ltd.                                                     | 22/10/2021 | 4109599 | 21886704.2 |        |
| 4109676 | Huawei Technologies Co., Ltd.                                                | 19/03/2021 | 4109676 | 21775052.0 |        |
| 4109812 | Samsung Electronics Co., Ltd.                                                | 19/02/2021 | 4109812 | 21759910.9 |        |
| 4110579 | HELLA GMBH & CO. KGAA                                                        | 22/02/2021 | 4110579 | 21707669.4 | German |
| 4111443 | Adler Evo S.r.l.                                                             | 24/02/2021 | 4111443 | 21712722.4 |        |
|         | Phononic Vibes S.r.l.                                                        |            |         |            |        |
| 4111739 | HUAWEI TECHNOLOGIES CO., LTD.                                                | 22/03/2021 | 4111739 | 21715166.1 |        |
| 4111816 | QUALCOMM INCORPORATED                                                        | 05/02/2021 | 4111816 | 21708878.0 |        |
| 4112245 | Braun GmbH                                                                   | 28/06/2021 | 4112245 | 21182057.6 |        |
| 4112612 | Daewoong Pharmaceutical Co., Ltd.                                            | 26/02/2021 | 4112612 | 21761658.0 |        |
| 4112619 | Transthera Sciences (Nanjing), Inc.                                          | 23/02/2021 | 4112619 | 21760436.2 |        |
| 4112806 | INPRO B.V.                                                                   | 29/06/2022 | 4112806 | 22020305.3 |        |
| 4113032 | Daikin Industries, Ltd.                                                      | 31/03/2021 | 4113032 | 21780702.3 |        |
| 4113727 | Dr. Ing. h.c. F. Porsche Aktiengesellschaft                                  | 10/06/2022 | 4113727 | 22020156.0 | German |
| 4114012 | Tencent Technology (Shenzhen) Company<br>Limited                             | 19/07/2021 | 4114012 | 21865686.6 |        |
| 4114276 | Hubly Inc.                                                                   | 04/03/2021 | 4114276 | 21764111.7 |        |
| 4114284 | Oloide SA                                                                    | 04/03/2021 | 4114284 | 21709412.7 |        |
| 4114976 | Laboratory Corporation of America<br>Holdings                                | 05/03/2021 | 4114976 | 21715371.7 |        |
| 4114991 | SMS group S.p.A.                                                             | 05/05/2022 | 4114991 | 22727433.9 |        |
| 4115334 | Seuster KG                                                                   | 02/03/2021 | 4115334 | 21710211.0 | German |
| 4115490 | WiTricity Corporation                                                        | 05/03/2021 | 4115490 | 21714595.2 |        |
| 4115619 | QUALCOMM INCORPORATED                                                        | 03/03/2021 | 4115619 | 21715019.2 |        |
| 4115862 | Unicharm Corporation                                                         | 26/04/2021 | 4115862 | 21796407.1 |        |
| 4116632 | mitsubishi electric<br>CORPORATION                                           | 04/03/2020 | 4116632 | 20923514.2 |        |
| 4116849 | iCognize GmbH                                                                | 07/07/2021 | 4116849 | 21184213.3 | German |
| 4117248 | ZTE Corporation                                                              | 31/03/2021 | 4117248 | 21780642.1 |        |
| 4117544 | Boston Scientific Scimed, Inc.                                               | 11/03/2021 | 4117544 | 21716024.1 |        |
| 4118332 | Vos Prodict Innovations B.V.                                                 | 11/03/2021 | 4118332 | 21710300.1 |        |
| 4119026 | LG ELECTRONICS INC.                                                          | 13/07/2022 | 4119026 | 22184592.8 |        |
| 4119147 | Chen, Chao-Cheng                                                             | 17/11/2021 | 4119147 | 21208666.4 |        |
| 4119629 | Sumitomo Rubber Industries, Ltd.                                             | 06/07/2022 | 4119629 | 22183396.5 |        |
| 4120172 | WAYMO LLC                                                                    | 12/07/2022 | 4120172 | 22184542.3 |        |
| 4120980 | BW Converting GmbH                                                           | 16/03/2021 | 4120980 | 21716602.4 | German |
| 4121153 | Snap Cpap, LLC                                                               | 09/03/2021 | 4121153 | 21775939.8 |        |
| 4121931 | Google LLC                                                                   | 13/12/2021 | 4121931 | 21840744.3 |        |
| 4121943 | Sony Group Corporation                                                       | 25/06/2021 | 4121943 | 21833625.3 |        |
| 4122155 | nChain Licensing AG                                                          | 23/04/2021 | 4122155 | 21731392.3 |        |
| 4122186 | Huawei Technologies Co., Ltd.                                                | 24/07/2020 | 4122186 | 20746199.7 |        |
| 4122671 | UBE Corporation                                                              | 19/03/2021 | 4122671 | 21771497.1 |        |
| 4122737 | BPW Bergische Achsen<br>Kommanditgesellschaft                                | 12/07/2022 | 4122737 | 22184445.9 | German |
| 4123369 | LG Innotek Co., Ltd.                                                         | 19/03/2021 | 4123369 | 21772482.2 |        |
| 4123985 | Huawei Technologies Co., Ltd.                                                | 12/04/2021 | 4123985 | 21785573.3 |        |
| 4124061 | HUAWEI TECHNOLOGIES CO., LTD.                                                | 02/04/2021 | 4124061 | 21779338.9 |        |
| 4124145 | Apple Inc.                                                                   | 17/05/2021 | 4124145 | 22193744.4 |        |
| 4124228 | Tecomec S.r.l.                                                               | 18/05/2022 | 4124228 | 22174004.6 |        |
| 4124272 | Ningbo Careline Electric Appliance Co.,<br>Ltd.                              | 22/04/2022 | 4124272 | 22169572.9 |        |
| 4124974 | FUJITSU LIMITED                                                              | 03/05/2022 | 4124974 | 22171310.0 |        |
| 4124985 | Palo Alto Networks, Inc.                                                     | 26/07/2022 | 4124985 | 22187057.9 |        |

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| 4125301 | Nokia Technologies Oy                                           | 27/07/2021 | 4125301 | 21188023.2 |        |
| 4126446 | TRUMPF Werkzeugmaschinen SE + Co. KG                            | 30/03/2021 | 4126446 | 21716169.4 | German |
| 4127395 | Schlumberger Technology B.V.                                    | 05/04/2021 | 4127395 | 21781939.0 |        |
| 4127405 | SAFRAN AIRCRAFT ENGINES                                         | 15/03/2021 | 4127405 | 21716802.0 | French |
| 4127432 | Cummins Inc.                                                    | 23/03/2021 | 4127432 | 21775148.6 |        |
| 4127518 | ZF Friedrichshafen AG                                           | 01/03/2021 | 4127518 | 21709372.3 | German |
| 4127899 | Motorola Solutions, Inc.                                        | 11/03/2021 | 4127899 | 21716020.9 |        |
| 4128290 | Massachusetts Institute of Technology                           | 25/03/2021 | 4128290 | 21794025.3 |        |
| 4128307 | Nexans                                                          | 01/04/2021 | 4128307 | 21722275.1 | French |
| 4128435 | Northrop Grumman Systems Corporation                            | 04/03/2021 | 4128435 | 21714088.8 |        |
| 4128675 | QUALCOMM INCORPORATED                                           | 25/03/2021 | 4128675 | 21720070.8 |        |
| 4128792 | Beijing Dajia Internet Information Technology Co., Ltd.         | 02/04/2021 | 4128792 | 21782301.2 |        |
| 4129296 | Nippon Chemiphar Co., Ltd.                                      | 07/04/2020 | 4129296 | 20726534.9 |        |
| 4130208 | Idemitsu Kosan Co., Ltd.                                        | 25/03/2021 | 4130208 | 21775324.3 |        |
| 4130225 | Samsarapps, S.L.                                                | 09/12/2020 | 4130225 | 20926769.9 |        |
| 4130685 | ABB Schweiz AG                                                  | 04/08/2021 | 4130685 | 21189682.4 |        |
| 4130859 | Panasonic Intellectual Property Management Co., Ltd.            | 22/02/2018 | 4130859 | 22196111.3 |        |
| 4130865 | View, Inc.                                                      | 19/04/2017 | 4130865 | 22189558.4 |        |
| 4130925 | QUALCOMM Incorporated                                           | 15/05/2015 | 4130925 | 22197509.7 |        |
| 4131261 | Huawei Technologies Co., Ltd.                                   | 08/04/2021 | 4131261 | 21788941.9 |        |
| 4131825 | HUAWEI TECHNOLOGIES CO., LTD.                                   | 06/05/2020 | 4131825 | 20934304.5 |        |
| 4131875 | Samsung Display Co., Ltd.                                       | 04/08/2022 | 4131875 | 22188786.2 |        |
| 4132749 | Howmet Aerospace Inc.                                           | 02/04/2021 | 4132749 | 21784646.8 |        |
| 4132857 | Packaging One Limited                                           | 30/03/2021 | 4132857 | 21729593.0 |        |
| 4133252 | Opus Inspection, Inc.                                           | 17/02/2021 | 4133252 | 21706543.2 | German |
| 4133306 | Aurora Operations, Inc.                                         | 18/06/2021 | 4133306 | 21825648.5 |        |
| 4133327 | Karlsruher Institut für Technologie                             | 08/04/2021 | 4133327 | 21718534.7 | German |
| 4133960 | Academia Dental de Mallorca SL                                  | 25/02/2021 | 4133960 | 21820990.6 |        |
| 4134575 | GEMÜ Gebr. Müller Apparatebau GmbH & Co. Kommanditgesellschaft  | 18/07/2022 | 4134575 | 22185432.6 | German |
| 4134663 | MISTRAS GROUP, INC.                                             | 12/08/2022 | 4134663 | 22190182.0 |        |
| 4134706 | Rockwell Collins, Inc.                                          | 10/08/2022 | 4134706 | 22189667.3 |        |
| 4134782 | Beijing Xiaomi Mobile Software Co., Ltd.                        | 24/02/2022 | 4134782 | 22158623.3 |        |
| 4134948 | Tata Consultancy Services Limited                               | 28/04/2022 | 4134948 | 22170594.0 |        |
| 4135292 | Juniper Networks, Inc.                                          | 01/11/2021 | 4135292 | 21205824.2 |        |
| 4135317 | Beijing Xiaomi Mobile Software Co., Ltd.                        | 29/12/2021 | 4135317 | 21218162.2 |        |
| 4135354 | Google LLC                                                      | 19/07/2016 | 4135354 | 22193112.4 |        |
| 4135505 | Discovery Purchaser Corporation                                 | 14/04/2021 | 4135505 | 21723552.2 |        |
| 4135606 | Smith&Nephew, Inc.                                              | 12/04/2021 | 4135606 | 21724074.6 |        |
|         | Smith & Nephew Orthopaedics AG                                  |            |         |            |        |
|         | Smith & Nephew Asia Pacific Pte. Limited                        |            |         |            |        |
| 4135825 | Becton, Dickinson and Company                                   | 14/04/2021 | 4135825 | 21722092.0 |        |
| 4136063 | Apical Molecular Biotech. Co., Ltd.                             | 08/06/2021 | 4136063 | 21822395.6 |        |
| 4136186 | SNF Group                                                       | 25/03/2021 | 4136186 | 21715857.5 |        |
| 4138036 | Space Shift, Inc.                                               | 21/01/2022 | 4138036 | 22800560.9 |        |
| 4138507 | Huawei Technologies Co., Ltd.                                   | 14/01/2019 | 4138507 | 22174548.2 |        |
| 4138627 | Freitag, Lutz                                                   | 21/04/2021 | 4138627 | 21720739.8 | German |
| 4138635 | Mazado Inc.                                                     | 09/04/2021 | 4138635 | 21791812.7 |        |
| 4138750 | Ontex BV                                                        | 22/04/2021 | 4138750 | 21721068.1 |        |
|         | Ontex Group NV                                                  |            |         |            |        |
| 4138964 | SANOFI                                                          | 23/04/2021 | 4138964 | 21720487.4 |        |
| 4138994 | Joltz LLC                                                       | 21/04/2021 | 4138994 | 21793547.7 |        |
| 4139172 | Shanghai Yanfeng Jinqiao Automotive Trim Systems Co., Ltd.      | 22/04/2021 | 4139172 | 21792005.7 |        |
| 4139535 | West.Neder.Land. Sandwich Panelen B.V.                          | 16/04/2021 | 4139535 | 21720864.4 |        |
| 4139981 | Arizona Board of Regents on behalf of The University of Arizona | 23/04/2021 | 4139981 | 21792982.7 |        |
| 4140431 | Intuitive Surgical Operations, Inc.                             | 09/11/2018 | 4140431 | 22188588.2 |        |
| 4140463 | Samsung Electronics Co., Ltd.                                   | 02/02/2021 | 4140463 | 21834200.4 |        |

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| 4140472 | Beiersdorf AG                                                           | 27/01/2020 | 4140472 | 22190992.2 | German |
| 4140636 | Senju Metal Industry Co., Ltd.                                          | 23/08/2022 | 4140636 | 22191697.6 |        |
| 4140866 | PODBIKE AS                                                              | 05/08/2022 | 4140866 | 22188940.5 |        |
| 4140918 | ISHIDA CO., Ltd.                                                        | 03/08/2022 | 4140918 | 22188632.8 |        |
| 4140941 | Atlantic Inertial Systems Limited                                       | 24/08/2021 | 4140941 | 21275116.8 |        |
| 4140950 | POSCO Silicon Solution Co., Ltd                                         | 24/08/2022 | 4140950 | 22191891.5 |        |
| 4141238 | PRATT & WHITNEY CANADA CORP.                                            | 30/08/2022 | 4141238 | 22192982.1 |        |
| 4142032 | LG ENERGY SOLUTION, LTD.                                                | 08/03/2022 | 4142032 | 22803157.1 |        |
| 4142283 | Aptiv Technologies AG                                                   | 22/07/2022 | 4142283 | 22186391.3 |        |
| 4142960 | D&H Industries                                                          | 29/04/2021 | 4142960 | 21729982.5 |        |
| 4143179 | Idorsia Pharmaceuticals Ltd                                             | 30/04/2021 | 4143179 | 21722227.2 |        |
| 4143183 | Gasherbrum Bio, Inc.                                                    | 28/04/2021 | 4143183 | 21795712.5 |        |
| 4143679 | KONE Corporation                                                        | 29/04/2020 | 4143679 | 20724887.3 |        |
| 4143985 | QUALCOMM INCORPORATED                                                   | 28/04/2021 | 4143985 | 21726502.4 |        |
| 4145017 | Volvo Car Corporation                                                   | 12/04/2021 | 4145017 | 22203352.4 |        |
| 4145075 | Samsung Electronics Co., Ltd.                                           | 28/04/2021 | 4145075 | 21828659.9 |        |
| 4145430 | Unilumin Group Co., Ltd.                                                | 26/07/2022 | 4145430 | 22186930.8 |        |
| 4145627 | Guangzhou Shiyuan Electronics Co., Ltd.                                 | 27/07/2021 | 4145627 | 21871010.1 |        |
| 4145763 | Garantir LLC                                                            | 02/09/2022 | 4145763 | 22193608.1 |        |
| 4145842 | LG ELECTRONICS INC.                                                     | 27/04/2020 | 4145842 | 20933926.6 |        |
| 4145865 | Huawei Technologies Co., Ltd.                                           | 28/04/2021 | 4145865 | 21812025.1 |        |
| 4146891 | Inter IKEA Systems B.V.                                                 | 04/05/2021 | 4146891 | 21800883.7 |        |
| 4147076 | ExxonMobil Technology and Engineering Company                           | 19/04/2021 | 4147076 | 21723092.9 |        |
| 4147259 | Siemens Aktiengesellschaft<br>Jean Müller GmbH Elektrotechnische Fabrik | 16/06/2021 | 4147259 | 21735590.8 | German |
| 4147321 | University College Cardiff Consultants Ltd                              | 29/04/2021 | 4147321 | 21724361.7 |        |
| 4147473 | Motorola Solutions, Inc.                                                | 26/04/2021 | 4147473 | 21726481.1 |        |
| 4147685 | C. Miesen GmbH & Co. KG                                                 | 08/09/2021 | 4147685 | 21195575.2 | German |
| 4148333 | LG Electronics Inc.                                                     | 18/06/2020 | 4148333 | 20934338.3 |        |
| 4148457 | INTEL Corporation                                                       | 23/06/2022 | 4148457 | 22180649.0 |        |
| 4149102 | Canon Kabushiki Kaisha                                                  | 23/08/2022 | 4149102 | 22191607.5 |        |
| 4149201 | Huawei Technologies Co., Ltd.                                           | 12/05/2021 | 4149201 | 21812359.4 |        |
| 4150160 | Kässbohrer Geländefahrzeug AG                                           | 26/04/2021 | 4150160 | 21722182.9 | German |
| 4150412 | Huawei Technologies Co., Ltd.                                           | 15/06/2020 | 4150412 | 20733256.0 |        |
| 4151026 | QUALCOMM INCORPORATED                                                   | 03/05/2021 | 4151026 | 21727694.8 |        |
| 4151822 | R&R Heide GmbH                                                          | 21/07/2022 | 4151822 | 22186157.8 | German |
| 4151933 | AQUA CO., LTD                                                           | 10/05/2021 | 4151933 | 21793269.8 |        |
|         | QINGDAO HAIER REFRIGERATOR CO., LTD.                                    |            |         |            |        |
|         | HAIER SMART HOME CO., LTD.                                              |            |         |            |        |
| 4151936 | QINGDAO HAIER REFRIGERATOR CO., LTD                                     | 12/04/2021 | 4151936 | 21792049.5 |        |
|         | HAIER SMART HOME CO., LTD.                                              |            |         |            |        |
| 4151941 | LG Electronics, Inc.                                                    | 04/05/2021 | 4151941 | 21803379.3 |        |
| 4152001 | Cernostics, Inc.                                                        | 23/11/2016 | 4152001 | 22184193.5 |        |
| 4152076 | Envisics Ltd.                                                           | 16/09/2022 | 4152076 | 22196035.4 |        |
| 4152257 | FUJITSU LIMITED                                                         | 13/05/2020 | 4152257 | 20935750.8 |        |
| 4152740 | LG Innotek Co., Ltd.                                                    | 04/05/2021 | 4152740 | 21804478.2 |        |
| 4153867 | Safran Aero Boosters                                                    | 11/05/2021 | 4153867 | 21725160.2 | French |
| 4153899 | Burckhardt Compression AG                                               | 18/05/2021 | 4153899 | 21727122.0 | German |
| 4154433 | Huawei Technologies Co., Ltd.                                           | 22/06/2021 | 4154433 | 21828063.4 |        |
| 4155181 | HL Mando Corporation                                                    | 29/07/2020 | 4155181 | 20888744.8 |        |
| 4155665 | TOPCON CORPORATION                                                      | 05/09/2022 | 4155665 | 22193820.2 |        |
| 4155916 | Petal Cloud Technology Co., Ltd.                                        | 31/03/2021 | 4155916 | 21824943.1 |        |
| 4156183 | GN Hearing A/S                                                          | 28/09/2021 | 4156183 | 21199648.3 |        |
| 4156575 | Apple Inc.                                                              | 27/07/2022 | 4156575 | 22187138.7 |        |
| 4156765 | Huawei Technologies Co. Ltd.                                            | 19/04/2021 | 4156765 | 21825605.5 |        |
| 4158589 | SEW-EURODRIVE GmbH & Co. KG                                             | 05/05/2021 | 4158589 | 21723974.8 | German |
| 4159395 | Lithonplus GmbH & Co. KG                                                | 28/09/2022 | 4159395 | 22198542.7 | German |

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| 4160583 | Spike Vision (Beijing) Technology Co., LTD.                                                            | 23/12/2021 | 4160583 | 21914122.3 |        |
| 4160640 | MITSUBISHI ELECTRIC CORPORATION                                                                        | 11/07/2017 | 4160640 | 22209047.4 |        |
| 4160842 | Hitachi Energy Ltd                                                                                     | 12/08/2019 | 4160842 | 22208152.3 |        |
| 4161024 | Juniper Networks, Inc.                                                                                 | 14/01/2022 | 4161024 | 22151630.5 |        |
| 4161101 | Starkey Laboratories, Inc.                                                                             | 07/09/2022 | 4161101 | 22194254.3 |        |
| 4161391 | Annalise-AI Pty Ltd                                                                                    | 09/06/2021 | 4161391 | 21821073.0 |        |
| 4161702 | Vogelsang GmbH & Co. KG                                                                                | 02/06/2021 | 4161702 | 21730198.5 | German |
| 4161740 | KUKA Deutschland GmbH                                                                                  | 27/05/2021 | 4161740 | 21730144.9 | German |
| 4162769 | Philip Morris Products, S.A.                                                                           | 03/06/2021 | 4162769 | 21729572.4 |        |
| 4163041 | Fasford Technology Co., Ltd.                                                                           | 08/09/2022 | 4163041 | 22194682.5 |        |
| 4163166 | Bethel Automotive Safety Systems Co., Ltd.                                                             | 05/02/2021 | 4163166 | 21822787.4 |        |
| 4163653 | LG Energy Solution, Ltd.                                                                               | 21/01/2022 | 4163653 | 22742885.1 |        |
| 4164018 | LG Energy Solution, Ltd.                                                                               | 18/01/2022 | 4164018 | 22746135.7 |        |
| 4164146 | Apple Inc.                                                                                             | 21/06/2017 | 4164146 | 22202553.8 |        |
| 4164501 | Koninklijke Philips N.V.                                                                               | 11/06/2021 | 4164501 | 21731800.5 |        |
| 4164674 | The University Of Bath                                                                                 | 11/06/2021 | 4164674 | 21733761.7 |        |
| 4164818 | Hydro Extruded Solutions AS                                                                            | 10/06/2021 | 4164818 | 21733411.9 |        |
| 4165241 | Aladdin Manufacturing Corporation                                                                      | 16/06/2021 | 4165241 | 21826052.9 |        |
| 4165276 | Branach Technology Pty Ltd                                                                             | 15/06/2021 | 4165276 | 21826616.1 |        |
| 4165566 | Tabor Mountain LLC                                                                                     | 15/06/2021 | 4165566 | 21746203.5 |        |
| 4166585 | SHIN-ETSU CHEMICAL CO., LTD.                                                                           | 08/04/2021 | 4166585 | 21821598.6 |        |
| 4167026 | Jinan Institute of Quantum Technology                                                                  | 19/08/2021 | 4167026 | 21863514.2 |        |
| 4167374 | Samsung Electronics Co., Ltd.                                                                          | 09/06/2021 | 4167374 | 21820970.8 |        |
| 4167415 | Atom Power, Inc.                                                                                       | 27/06/2019 | 4167415 | 22212343.2 |        |
| 4167540 | Google LLC                                                                                             | 03/08/2022 | 4167540 | 22188518.9 |        |
| 4167833 | Covidien LP                                                                                            | 17/06/2021 | 4167833 | 21745862.9 |        |
| 4168013 | NovMetaPharma Co., Ltd.                                                                                | 22/06/2021 | 4168013 | 21828157.4 |        |
| 4168160 | Gambro Lundia AB                                                                                       | 17/06/2021 | 4168160 | 21732898.8 |        |
| 4168231 | ROTO evolution GmbH                                                                                    | 16/06/2021 | 4168231 | 21731820.3 | German |
| 4168273 | Auria Solutions UK I Ltd.                                                                              | 17/06/2021 | 4168273 | 21825410.0 |        |
| 4168357 | Cometti, Carlo Alberto                                                                                 | 14/06/2021 | 4168357 | 21739437.8 |        |
| 4168701 | Tyco Fire Products LP                                                                                  | 14/06/2021 | 4168701 | 21825427.4 |        |
| 4168715 | Honeywell International Inc.                                                                           | 21/06/2021 | 4168715 | 21743017.2 |        |
| 4168760 | Single Quantum B.V.                                                                                    | 18/06/2021 | 4168760 | 21734327.6 |        |
| 4169240 | QUALCOMM INCORPORATED                                                                                  | 19/05/2021 | 4169240 | 21732705.5 |        |
| 4169515 | FBC (Shanghai) Pharmaceutical Technology Co., Ltd.<br>Kewpie Corporation                               | 15/04/2021 | 4169515 | 21843280.5 |        |
| 4170719 | InnoLux Corporation                                                                                    | 29/09/2022 | 4170719 | 22198635.9 |        |
| 4171298 | Philip Morris Products, S.A.                                                                           | 24/06/2021 | 4171298 | 21735688.0 |        |
| 4171692 | Philip Morris Products, S.A.                                                                           | 22/06/2021 | 4171692 | 21732935.8 |        |
| 4171772 | Lovepop, Inc.                                                                                          | 02/08/2021 | 4171772 | 21849217.1 |        |
| 4171952 | Stalcom Automotive Technologies Limited                                                                | 23/06/2021 | 4171952 | 21737755.5 |        |
| 4173236 | ALE USA Inc.                                                                                           | 24/06/2020 | 4173236 | 20941903.5 |        |
| 4173276 | Google LLC                                                                                             | 29/06/2021 | 4173276 | 21748997.0 |        |
| 4173843 | Sumitomo Rubber Industries, Ltd.                                                                       | 27/07/2022 | 4173843 | 22187258.3 |        |
| 4173953 | The Boeing Company                                                                                     | 26/10/2022 | 4173953 | 22203791.3 |        |
| 4174019 | CANON KABUSHIKI KAISHA                                                                                 | 30/06/2021 | 4174019 | 21832011.7 |        |
| 4174486 | Eddyfi Canada Inc.                                                                                     | 28/10/2022 | 4174486 | 22204538.7 |        |
| 4175607 | Colgate-Palmolive Company                                                                              | 06/08/2021 | 4175607 | 21762897.3 |        |
| 4175711 | Siemens Healthineers International AG                                                                  | 28/06/2021 | 4175711 | 21739978.1 |        |
| 4175810 | A.M.I. Agency for Medical Innovations GmbH                                                             | 30/06/2021 | 4175810 | 21739992.2 | German |
| 4176217 | Bruker Switzerland AG                                                                                  | 13/05/2022 | 4176217 | 22729168.9 | German |
| 4176278 | The United States of America, as represented by the Secretary, Department of Health and Human Services | 01/07/2021 | 4176278 | 21746288.6 |        |
| 4176604 | ZTE Corporation                                                                                        | 05/08/2020 | 4176604 | 20948483.1 |        |

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| 4177006 | Seoul National University R & DB Foundation                          | 10/07/2020 | 4177006 | 20943007.3 |        |
|         | Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. |            |         |            |        |
| 4177663 | Carl Zeiss Microscopy GmbH                                           | 08/11/2022 | 4177663 | 22206205.1 | German |
| 4177725 | Huawei Technologies Co. Ltd.                                         | 27/07/2021 | 4177725 | 21850810.9 |        |
| 4177766 | FUJITSU LIMITED                                                      | 03/07/2020 | 4177766 | 20943751.6 |        |
| 4177966 | Jinko Solar (Haining) Co., Ltd.                                      | 10/12/2021 | 4177966 | 21213758.2 |        |
|         | Zhejiang Jinko Solar Co., Ltd.                                       |            |         |            |        |
| 4178117 | Samsung Electronics Co., Ltd.                                        | 28/07/2021 | 4178117 | 21850294.6 |        |
| 4178392 | Alpinestars Research S.p.A.                                          | 09/07/2021 | 4178392 | 21739404.8 |        |
| 4178457 | Warsaw Orthopedic, Inc.                                              | 02/07/2021 | 4178457 | 21755117.5 |        |
| 4178649 | Hamilton Medical AG                                                  | 06/07/2021 | 4178649 | 21745930.4 | German |
| 4178668 | Cardiac Pacemakers, Inc.                                             | 06/07/2021 | 4178668 | 21748736.2 |        |
| 4179221 | Ortho Hub Ventures UG (Haftungsbeschränkt)                           | 09/07/2021 | 4179221 | 21743430.7 | German |
| 4179301 | Oxford Instruments Nanotechnology Tools Limited                      | 08/07/2021 | 4179301 | 21746110.2 |        |
| 4179377 | Cambridge Enterprise Limited                                         | 02/07/2021 | 4179377 | 21739128.3 |        |
| 4179768 | QUALCOMM INCORPORATED                                                | 30/06/2021 | 4179768 | 21746254.8 |        |
| 4179809 | QUALCOMM INCORPORATED                                                | 12/07/2021 | 4179809 | 21749497.0 |        |
| 4180016 | Unicharm Corporation                                                 | 30/09/2021 | 4180016 | 21875814.2 |        |
| 4180031 | KIRIN HOLDINGS KABUSHIKI KAISHA                                      | 13/07/2021 | 4180031 | 21842850.6 |        |
| 4180196 | Daeun Global Solution Co., Ltd.                                      | 11/11/2021 | 4180196 | 21020564.7 |        |
| 4180643 | Isuzu Motors Limited                                                 | 06/10/2021 | 4180643 | 21855742.9 |        |
| 4180665 | Schwäbische Hüttenwerke Automotive GmbH                              | 07/11/2022 | 4180665 | 22205885.1 | German |
| 4180826 | LG Energy Solution, Ltd.                                             | 16/12/2021 | 4180826 | 21915629.6 |        |
| 4180960 | Samsung Electronics Co., Ltd.                                        | 09/11/2022 | 4180960 | 22206488.3 |        |
| 4181307 | Contemporary Ampere Technology (Hong Kong) Limited                   | 30/09/2021 | 4181307 | 21952110.1 |        |
| 4181752 | Clevertivity LLC                                                     | 14/07/2021 | 4181752 | 21841699.8 |        |
| 4181841 | Coloplast A/S                                                        | 15/07/2021 | 4181841 | 21745910.6 |        |
| 4182404 | Performance Biofilaments Inc.                                        | 02/06/2021 | 4182404 | 21843353.0 |        |
| 4182887 | Jingdong Technology Holding Co., Ltd.                                | 15/07/2021 | 4182887 | 21842821.7 |        |
| 4183446 | Element Science, Inc.                                                | 26/08/2016 | 4183446 | 23150546.2 |        |
| 4183861 | MGI Tech Co., Ltd.                                                   | 15/07/2020 | 4183861 | 20945038.6 |        |
| 4184380 | DJB Group LLC                                                        | 17/11/2022 | 4184380 | 22208131.7 |        |
| 4184441 | Rockwell Collins, Inc.                                               | 11/11/2022 | 4184441 | 22207060.9 |        |
| 4184456 | Bundesdruckerei GmbH                                                 | 23/11/2022 | 4184456 | 22209013.6 | German |
| 4184579 | STMicroelectronics (Alps) SAS                                        | 14/11/2022 | 4184579 | 22207115.1 | French |
|         | STMicroelectronics (Grenoble 2) SAS                                  |            |         |            |        |
| 4184755 | LG Electronics, Inc.                                                 | 15/07/2021 | 4184755 | 21841858.0 |        |
| 4184937 | Huawei Technologies Co. Ltd.                                         | 29/06/2021 | 4184937 | 21857362.4 |        |
| 4184993 | Huawei Technologies Co., Ltd.                                        | 06/08/2021 | 4184993 | 21852570.7 |        |
| 4185753 | UBFS LLC                                                             | 15/01/2021 | 4185753 | 21846973.2 |        |
| 4187264 | STMicroelectronics S.r.l.                                            | 15/11/2022 | 4187264 | 22207467.6 |        |
| 4187268 | Mintech Co., Ltd.                                                    | 25/11/2022 | 4187268 | 22209599.4 |        |
| 4187355 | Apple Inc.                                                           | 23/09/2016 | 4187355 | 22214943.7 |        |
| 4187475 | ASICS Corporation                                                    | 11/11/2022 | 4187475 | 22207054.2 |        |
| 4187511 | Scheidt & Bachmann GmbH                                              | 09/11/2022 | 4187511 | 22206322.4 | German |
| 4187614 | Huawei Technologies Co. Ltd.                                         | 03/08/2021 | 4187614 | 21855413.7 |        |
| 4187816 | Huawei Technologies Co. Ltd.                                         | 15/07/2021 | 4187816 | 21849200.7 |        |
| 4187824 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                 | 24/07/2020 | 4187824 | 20946168.0 |        |
| 4188646 | 3M Innovative Properties Company                                     | 20/07/2021 | 4188646 | 21746166.4 |        |
| 4189548 | ARRIS Enterprises LLC                                                | 03/08/2021 | 4189548 | 21766259.2 |        |
| 4189587 | Motorola Solutions, Inc.                                             | 23/06/2021 | 4189587 | 21742269.0 |        |
| 4189954 | Samsung Electronics Co., Ltd.                                        | 20/01/2022 | 4189954 | 22749893.8 |        |
| 4189955 | Microsoft Technology Licensing, LLC                                  | 05/05/2021 | 4189955 | 21728694.7 |        |

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| 4190575 | BROTHER KOGYO KABUSHIKI<br>KAISHA                                                          | 26/03/2021 | 4190575 | 21850643.4 |        |
| 4190578 | BROTHER KOGYO KABUSHIKI<br>KAISHA                                                          | 27/07/2021 | 4190578 | 21851214.3 |        |
| 4191026 | Solar Turbines Incorporated                                                                | 12/11/2022 | 4191026 | 22207078.1 |        |
| 4191226 | TSI Incorporated                                                                           | 31/03/2017 | 4191226 | 22211398.7 |        |
| 4191313 | Huawei Technologies Co. Ltd.                                                               | 03/08/2021 | 4191313 | 21855409.5 |        |
| 4191379 | Huawei Technologies Co., Ltd.                                                              | 29/12/2016 | 4191379 | 22202900.1 |        |
| 4191409 | Huawei Technologies Co. Ltd.                                                               | 16/08/2021 | 4191409 | 21860201.9 |        |
| 4191553 | Nittan Company, Limited                                                                    | 31/07/2020 | 4191553 | 20947072.3 |        |
| 4191898 | Huawei Technologies Co. Ltd.                                                               | 16/08/2021 | 4191898 | 21857606.4 |        |
| 4191950 | Huawei Technologies Co. Ltd.                                                               | 12/08/2020 | 4191950 | 20949042.4 |        |
| 4191974 | Huawei Technologies Co., Ltd.                                                              | 30/07/2021 | 4191974 | 21860042.7 |        |
| 4191988 | Huawei Technologies Co. Ltd.                                                               | 19/08/2021 | 4191988 | 21860254.8 |        |
| 4192831 | Gasherbrum Bio, Inc.                                                                       | 06/08/2021 | 4192831 | 21853586.2 |        |
| 4194092 | Umicore AG & Co. KG                                                                        | 10/08/2017 | 4194092 | 22210130.5 |        |
| 4194548 | Janssen Biotech, Inc.                                                                      | 14/06/2017 | 4194548 | 22213072.6 |        |
| 4194734 | HDT Veritas Hessen GmbH                                                                    | 07/12/2022 | 4194734 | 22212036.2 | German |
| 4194898 | Nio Technology (Anhui) Co., Ltd                                                            | 10/11/2022 | 4194898 | 22206760.5 |        |
| 4194915 | Sterlite Technologies Limited                                                              | 09/12/2022 | 4194915 | 22212551.0 |        |
| 4195155 | Imagination Technologies Limited                                                           | 30/11/2022 | 4195155 | 22210667.6 |        |
| 4195388 | Contemporary Amperex Technology (Hong Kong) Limited                                        | 20/10/2021 | 4195388 | 21876724.2 |        |
| 4196722 | Johnson Controls Tyco IP Holdings LLP                                                      | 11/08/2021 | 4196722 | 21856656.0 |        |
| 4196867 | Apple Inc.                                                                                 | 24/09/2021 | 4196867 | 21799406.0 |        |
| 4197156 | Google LLC                                                                                 | 22/08/2022 | 4197156 | 22769827.1 |        |
| 4197381 | Nike Innovate C.V.                                                                         | 25/10/2018 | 4197381 | 22208676.1 |        |
| 4197598 | The Procter & Gamble Company                                                               | 24/01/2018 | 4197598 | 22213979.2 |        |
| 4198379 | Antares Iluminación, S.A.U.                                                                | 16/09/2022 | 4198379 | 22382861.7 |        |
| 4198508 | Evosep ApS                                                                                 | 26/09/2017 | 4198508 | 23156161.4 |        |
| 4198639 | ETA SA Manufacture Horlogère Suisse                                                        | 16/12/2021 | 4198639 | 21215205.2 | French |
| 4198688 | Huawei Technologies Co. Ltd.                                                               | 07/09/2020 | 4198688 | 20952050.1 |        |
| 4198940 | Korea National University of<br>Transportation Industry-Academic<br>Cooperation Foundation | 10/06/2022 | 4198940 | 22178376.4 |        |
| 4199020 | SCHNEIDER ELECTRIC INDUSTRIES<br>SAS                                                       | 16/12/2022 | 4199020 | 22214074.1 | French |
| 4199157 | Contemporary Amperex Technology (Hong Kong) Limited                                        | 29/10/2021 | 4199157 | 21928363.7 |        |
| 4199346 | Eaton Intelligent Power Limited                                                            | 16/12/2022 | 4199346 | 22214167.3 |        |
| 4199573 | Huawei Technologies Co., Ltd.                                                              | 09/09/2022 | 4199573 | 22843993.1 |        |
| 4199675 | The Boeing Company                                                                         | 02/12/2022 | 4199675 | 22211034.8 |        |
| 4200389 | Zynon Technologies, LLC                                                                    | 17/08/2021 | 4200389 | 21858919.0 |        |
| 4200509 | Schlumberger Technology B.V.                                                               | 17/08/2021 | 4200509 | 21858920.8 |        |
| 4200799 | QUALCOMM Incorporated                                                                      | 24/08/2021 | 4200799 | 21770384.2 |        |
| 4200821 | Ibmetrix Limited                                                                           | 18/08/2021 | 4200821 | 21831082.9 |        |
| 4200872 | Elekta, Inc.                                                                               | 09/09/2021 | 4200872 | 21787277.9 |        |
| 4201025 | WhatsApp LLC                                                                               | 30/07/2021 | 4201025 | 21759467.0 |        |
| 4201487 | GVS S.p.A.                                                                                 | 20/12/2022 | 4201487 | 22214901.5 |        |
| 4202832 | Samsung Electronics Co., Ltd.                                                              | 08/08/2022 | 4202832 | 22189325.8 |        |
| 4203512 | Shenzhen Shokz Co., Ltd.                                                                   | 22/07/2021 | 4203512 | 21913042.4 |        |
| 4203665 | B-Hive Innovations Limited                                                                 | 24/09/2021 | 4203665 | 21789802.2 |        |
| 4203847 | Shifamed Holdings, LLC                                                                     | 25/08/2021 | 4203847 | 21862667.9 |        |
| 4204051 | Hamilton Medical AG                                                                        | 26/08/2021 | 4204051 | 21765953.1 | German |
| 4204281 | Hydac New Technologies GmbH                                                                | 28/09/2021 | 4204281 | 21785865.3 | German |
| 4204465 | ExxonMobil Chemical Patents Inc.                                                           | 26/07/2021 | 4204465 | 21759498.5 |        |
| 4204773 | SAIPEM S.A.                                                                                | 25/11/2021 | 4204773 | 21831081.1 | French |
| 4205376 | Huawei Technologies Co. Ltd.                                                               | 02/09/2020 | 4205376 | 20765183.7 |        |
| 4205522 | KUBOTA CORPORATION                                                                         | 30/11/2022 | 4205522 | 22210503.3 |        |
| 4205523 | Kubota Corporation                                                                         | 02/12/2022 | 4205523 | 22210987.8 |        |
| 4205624 | LG Electronics Inc.                                                                        | 16/12/2022 | 4205624 | 22214185.5 |        |
| 4205716 | Unicharm Corporation                                                                       | 30/09/2021 | 4205716 | 21875813.4 |        |

|         |                                                    |            |         |            |        |
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| 4206014 | Hyundai Motor Company                              | 29/08/2022 | 4206014 | 22192597.7 |        |
|         | Kia Corporation                                    |            |         |            |        |
| 4206237 | Kuraray Co., Ltd.                                  | 21/07/2021 | 4206237 | 21861061.6 |        |
| 4206610 | UISEE Technologies (Beijing) Ltd.                  | 23/10/2020 | 4206610 | 20954865.0 |        |
| 4206674 | Encodia, Inc.                                      | 27/12/2022 | 4206674 | 22216833.8 |        |
| 4206787 | Zhejiang Crystal-Optech Co., Ltd.                  | 29/12/2021 | 4206787 | 21928892.5 |        |
| 4206912 | Vivo Mobile Communication Co., Ltd.                | 22/09/2021 | 4206912 | 21871493.9 |        |
| 4207097 | FUJITSU LIMITED                                    | 22/09/2022 | 4207097 | 22197101.3 |        |
| 4207340 | LG Energy Solution, Ltd.                           | 18/07/2022 | 4207340 | 22846170.3 |        |
| 4207753 | Huawei Technologies Co. Ltd.                       | 23/09/2021 | 4207753 | 21874335.9 |        |
| 4207774 | Huawei Technologies Co. Ltd.                       | 16/09/2020 | 4207774 | 20953605.1 |        |
| 4208398 | Ocado Innovation Limited                           | 25/08/2021 | 4208398 | 21769108.8 |        |
| 4208442 | NRG Therapeutics LTD                               | 01/09/2021 | 4208442 | 21769789.5 |        |
| 4208764 | Robert Bosch GmbH                                  | 15/07/2021 | 4208764 | 21745979.1 | German |
| 4208781 | PayPal, Inc.                                       | 01/09/2021 | 4208781 | 21865029.9 |        |
| 4208937 | SEW-EURODRIVE GmbH & Co. KG                        | 28/07/2021 | 4208937 | 21752021.2 | German |
| 4209000 | Direct Electron, LP                                | 26/07/2021 | 4209000 | 21864866.5 |        |
| 4209877 | Huawei Technologies Co. Ltd.                       | 08/09/2021 | 4209877 | 21871270.1 |        |
| 4210073 | Asahi Kasei Kabushiki Kaisha                       | 03/09/2021 | 4210073 | 21864444.1 |        |
| 4210084 | Huawei Digital Power Technologies Co., Ltd.        | 30/08/2021 | 4210084 | 21868434.8 |        |
| 4210185 | Nokia Solutions and Networks Oy                    | 10/01/2022 | 4210185 | 22305017.0 |        |
| 4210455 | Kunshan Go-Visionox Opto-Electronics Co., Ltd.     | 25/04/2021 | 4210455 | 23152340.8 |        |
| 4210530 | Nike Innovate C.V.                                 | 10/09/2021 | 4210530 | 21790331.9 |        |
| 4210911 | Wandercraft                                        | 08/09/2021 | 4210911 | 21782785.6 | French |
| 4210929 | watttron GmbH                                      | 09/09/2021 | 4210929 | 21777442.1 | German |
| 4210930 | watttron GmbH                                      | 09/09/2021 | 4210930 | 21777445.4 | German |
| 4211302 | HEFA HOLDING GMBH                                  | 09/09/2021 | 4211302 | 21777430.6 | German |
| 4211448 | Thermo Fisher Scientific (Ecublens) Sarl           | 03/08/2021 | 4211448 | 21755431.0 |        |
| 4212158 | Changchun Genescience Pharmaceutical Co., Ltd.     | 02/04/2021 | 4212158 | 21865519.9 |        |
| 4212377 | Hyundai Mobis Co., Ltd.                            | 27/12/2022 | 4212377 | 22216794.2 |        |
| 4212598 | Nippon Paint Automotive Coatings Co., Ltd.         | 02/09/2021 | 4212598 | 21866809.3 |        |
|         | Otsuka Chemical Co., Ltd.                          |            |         |            |        |
| 4212669 | Mondo Tufting, S.A.                                | 09/09/2020 | 4212669 | 20953175.5 |        |
| 4212725 | Eaton Intelligent Power Limited                    | 13/01/2023 | 4212725 | 23151629.5 |        |
| 4212752 | Goodrich Actuation Systems SAS                     | 17/01/2022 | 4212752 | 22305034.5 |        |
| 4212978 | Intelligrated Headquarters LLC                     | 06/07/2012 | 4212978 | 23157784.2 |        |
| 4213406 | Nokia Technologies Oy                              | 12/01/2023 | 4213406 | 23151234.4 |        |
| 4213461 | Huawei Technologies Co. Ltd.                       | 07/09/2021 | 4213461 | 21881747.6 |        |
| 4213716 | Abiomed Europe GmbH                                | 07/10/2021 | 4213716 | 21794477.6 |        |
| 4213964 | The Metraflex Company                              | 20/08/2021 | 4213964 | 21869960.1 |        |
| 4214593 | Xilinx, Inc.                                       | 21/07/2021 | 4214593 | 21758852.4 |        |
| 4215659 | Izawa Towel Co., Ltd.                              | 01/09/2021 | 4215659 | 21869174.9 |        |
| 4216266 | Sansha Electric Manufacturing Co., Ltd.            | 15/09/2020 | 4216266 | 20954038.4 |        |
| 4217162 | Fravizel - Equipamentos Metalomecânicos, S.A.      | 22/09/2021 | 4217162 | 21807237.9 |        |
| 4217835 | Apple Inc.                                         | 25/09/2021 | 4217835 | 21795228.2 |        |
| 4218005 | Myrtle Software Limited                            | 21/09/2021 | 4218005 | 21782900.1 |        |
| 4218883 | W. L. Gore & Associates, Inc.                      | 16/12/2011 | 4218883 | 23165255.3 |        |
| 4219238 | Ficosa Automotive, S.L.U.                          | 26/01/2023 | 4219238 | 23382064.6 |        |
| 4219247 | Autoliv Development AB                             | 30/07/2021 | 4219247 | 21871973.0 |        |
| 4219306 | The Boeing Company                                 | 27/01/2023 | 4219306 | 23153629.3 |        |
| 4219343 | Shanghai Quicktron Intelligent Technology Co., Ltd | 26/08/2021 | 4219343 | 21871199.2 |        |
| 4219644 | VALQUA, Ltd.                                       | 09/09/2021 | 4219644 | 21872186.8 |        |
| 4219917 | RTX Corporation                                    | 15/05/2019 | 4219917 | 23168593.4 |        |
| 4220199 | ITRON, INC.                                        | 29/04/2016 | 4220199 | 23153610.3 |        |
| 4220305 | CANON KABUSHIKI KAISHA                             | 18/05/2021 | 4220305 | 23159613.1 |        |
| 4220366 | Honor Device Co., Ltd.                             | 06/09/2022 | 4220366 | 22879629.8 |        |



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| 4220520 | VISA INTERNATIONAL SERVICE ASSOCIATION                               | 10/11/2016 | 4220520 | 23165412.0 |        |
| 4220625 | INVISIO Communications Ltd                                           | 30/12/2022 | 4220625 | 22217419.5 |        |
| 4220747 | LG Energy Solution, Ltd.                                             | 12/04/2022 | 4220747 | 22788382.4 |        |
| 4220767 | Contemporary Ampere Technology (Hong Kong) Limited                   | 01/06/2022 | 4220767 | 22868734.9 |        |
| 4220768 | Kyoraku Co., Ltd.                                                    | 30/10/2018 | 4220768 | 23161455.3 |        |
| 4221058 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 14/02/2020 | 4221058 | 23166074.7 |        |
| 4221440 | ME Innovation SRL                                                    | 22/03/2018 | 4221440 | 23152588.2 |        |
| 4222365 | Dupas, Benjamin                                                      | 14/09/2021 | 4222365 | 21770074.9 | French |
| 4222452 | Telefonaktiebolaget LM Ericsson (publ)                               | 09/12/2020 | 4222452 | 20964586.0 |        |
| 4222454 | LIIKENEVIRTA OY / VIRTA LTD                                          | 28/09/2021 | 4222454 | 21787488.2 |        |
| 4223127 | Kreavision Holding Ltd.                                              | 07/02/2022 | 4223127 | 22155466.0 | German |
| 4223959 | Philips, Paul                                                        | 31/01/2023 | 4223959 | 23154163.2 |        |
|         | Philips, Susan                                                       |            |         |            |        |
| 4223981 | PRATT & WHITNEY CANADA CORP.                                         | 06/02/2023 | 4223981 | 23155213.4 |        |
| 4224084 | GD Midea Air-Conditioning Equipment Co., Ltd.                        | 26/09/2021 | 4224084 | 21884844.8 |        |
| 4224508 | Huawei Digital Power Technologies Co., Ltd.                          | 22/09/2021 | 4224508 | 21884825.7 |        |
|         | Shanghai Liangxin Electrical Co., Ltd                                |            |         |            |        |
| 4224509 | Huawei Technologies Co., Ltd.                                        | 22/09/2021 | 4224509 | 21884824.0 |        |
|         | Shanghai Liangxin Electrical Co., Ltd                                |            |         |            |        |
| 4224596 | LG Energy Solution, Ltd.                                             | 22/06/2022 | 4224596 | 22835541.8 |        |
| 4224623 | Samsung SDI Co., Ltd.                                                | 07/02/2023 | 4224623 | 23155443.7 |        |
| 4224832 | Google LLC                                                           | 17/07/2019 | 4224832 | 23180133.3 |        |
| 4225105 | INVENTRA Sp. z o.o.                                                  | 28/09/2021 | 4225105 | 21810449.5 |        |
| 4226242 | Microsoft Technology Licensing, LLC                                  | 28/06/2021 | 4226242 | 21745593.0 |        |
| 4226500 | Weidmüller Interface GmbH & Co. KG                                   | 01/10/2021 | 4226500 | 21786465.1 | German |
| 4227051 | Foshan Hope Digital Printing Equipment Co., Ltd.                     | 25/11/2022 | 4227051 | 22888634.7 |        |
| 4227129 | CQLT SaarGummi Technologies S.à.r.l.                                 | 20/01/2023 | 4227129 | 23020029.7 | German |
| 4227313 | Novo Nordisk A/S                                                     | 08/11/2018 | 4227313 | 23172873.4 |        |
| 4227545 | Littelfuse, Inc.                                                     | 10/02/2023 | 4227545 | 23156015.2 |        |
| 4227932 | Mui Lab, Inc.                                                        | 20/07/2021 | 4227932 | 21874868.9 |        |
| 4228359 | Huawei Technologies Co. Ltd.                                         | 30/11/2020 | 4228359 | 20963105.0 |        |
| 4230789 | Asahi Kasei Kabushiki Kaisha                                         | 13/10/2021 | 4230789 | 21880169.4 |        |
| 4231592 | Huawei Technologies Co. Ltd.                                         | 29/11/2021 | 4231592 | 21897193.5 |        |
| 4231617 | Deutsche Telekom AG                                                  | 22/02/2022 | 4231617 | 22158067.3 |        |
| 4232151 | Scholar Rock, Inc.                                                   | 25/10/2021 | 4232151 | 21807468.0 |        |
| 4232784 | Covidien LP                                                          | 22/10/2021 | 4232784 | 21811217.5 |        |
| 4232967 | Entanglement, Inc.                                                   | 25/10/2021 | 4232967 | 21884066.8 |        |
| 4234305 | Airbus Operations GmbH                                               | 25/02/2022 | 4234305 | 22158960.9 |        |
| 4234988 | NOK Corporation                                                      | 16/05/2018 | 4234988 | 23173181.1 |        |
| 4235292 | Femtonics Kft.                                                       | 31/08/2017 | 4235292 | 23173446.8 |        |
| 4235402 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                  | 09/09/2021 | 4235402 | 21896474.0 |        |
| 4235578 | HTC Corporation                                                      | 24/08/2022 | 4235578 | 22191986.3 |        |
| 4235662 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 10/01/2018 | 4235662 | 23180164.8 |        |
| 4235683 | Kyowa Hakko Bio Co., Ltd.                                            | 22/10/2021 | 4235683 | 21882924.0 |        |
|         | Kyoto University                                                     |            |         |            |        |
|         | HIROSAKI UNIVERSITY                                                  |            |         |            |        |
| 4236179 | InterDigital Patent Holdings, Inc.                                   | 02/02/2018 | 4236179 | 23179619.4 |        |
| 4237911 | Hewlett-Packard Development Company, L.P.                            | 29/10/2020 | 4237911 | 20960136.8 |        |
| 4238002 | Composecure, LLC                                                     | 28/10/2021 | 4238002 | 21811628.3 |        |
| 4238498 | NTT, Inc.                                                            | 02/12/2021 | 4238498 | 21917602.1 |        |
| 4239007 | Lg Chem, Ltd.                                                        | 12/08/2022 | 4239007 | 22856300.3 |        |
| 4239186 | LM Wind Power (Spain) S.A.                                           | 02/03/2022 | 4239186 | 22382194.3 |        |
|         | LM Wind Power A/S                                                    |            |         |            |        |

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| 4239197 | EBARA CORPORATION                                      | 02/02/2023 | 4239197 | 23154594.8 |        |
| 4239366 | KABUSHIKI KAISHA TOSHIBA                               | 01/09/2022 | 4239366 | 22193424.3 |        |
| 4239457 | Anhui Hongcheng Opto-Electronics Co., Ltd.             | 16/12/2020 | 4239457 | 20959589.1 |        |
| 4240209 | Inter IKEA Systems B.V.                                | 08/11/2021 | 4240209 | 21889722.1 |        |
| 4240597 | Speedheater System AB                                  | 03/11/2021 | 4240597 | 21889715.5 |        |
| 4240942 | BAE SYSTEMS plc                                        | 03/11/2021 | 4240942 | 21811427.0 |        |
| 4241645 | Bissell Inc.                                           | 28/02/2023 | 4241645 | 23159273.4 |        |
| 4241799 | Global Vascular Co., Ltd.                              | 09/11/2020 | 4241799 | 20960852.0 |        |
|         | Hasebe, Terumitsu                                      |            |         |            |        |
| 4241968 | Goodrich Corporation                                   | 08/03/2023 | 4241968 | 23160778.9 |        |
| 4242903 | Suprema Inc.                                           | 09/03/2023 | 4242903 | 23161020.5 |        |
| 4242906 | Samsung Electronics Co., Ltd.                          | 01/12/2021 | 4242906 | 21911296.8 |        |
| 4243098 | Terra Quantum AG                                       | 07/03/2022 | 4243098 | 22160491.1 |        |
| 4243424 | LG Electronics Inc.                                    | 14/07/2022 | 4243424 | 22184995.3 |        |
| 4244661 | HYPERTUNNEL IP LIMITED                                 | 08/11/2021 | 4244661 | 21819575.8 |        |
| 4244784 | TRUMPF Werkzeugmaschinen SE + Co. KG                   | 09/11/2021 | 4244784 | 21810550.0 | German |
| 4245341 | Hill-Rom Services PTE. LTD.                            | 16/03/2023 | 4245341 | 23162397.6 |        |
| 4245643 | thyssenkrupp Presta Aktiengesellschaft thyssenkrupp AG | 10/03/2023 | 4245643 | 23161159.1 | German |
| 4245949 | Axalys                                                 | 07/03/2023 | 4245949 | 23160412.5 | French |
| 4246050 | MITSUBISHI ELECTRIC CORPORATION                        | 10/11/2020 | 4246050 | 20961517.8 |        |
| 4246168 | FUJIFILM Corporation                                   | 07/03/2023 | 4246168 | 23160355.6 |        |
| 4246276 | The Toro Company                                       | 13/04/2020 | 4246276 | 23190894.8 |        |
| 4246456 | TOYOTA JIDOSHA KABUSHIKI KAISHA                        | 10/03/2023 | 4246456 | 23161206.0 |        |
|         | DENSO CORPORATION                                      |            |         |            |        |
| 4246661 | LG Energy Solution, Ltd.                               | 26/07/2022 | 4246661 | 22849849.9 |        |
| 4246904 | Huawei Technologies Co. Ltd.                           | 22/12/2021 | 4246904 | 21914092.8 |        |
| 4247089 | Huawei Technologies Co. Ltd.                           | 27/04/2022 | 4247089 | 22794948.4 |        |
| 4247991 | Novelis Koblenz GmbH                                   | 19/11/2021 | 4247991 | 21816164.4 |        |
| 4248306 | Equifax, Inc.                                          | 22/11/2021 | 4248306 | 21827805.9 |        |
| 4248912 | Inion Oy                                               | 21/03/2022 | 4248912 | 22163217.7 |        |
| 4249858 | Kistler Holding AG                                     | 06/02/2023 | 4249858 | 23155035.1 | German |
| 4250051 | General Electric Company                               | 22/03/2023 | 4250051 | 23163502.0 |        |
| 4250245 | Valerann Ltd.                                          | 07/03/2023 | 4250245 | 23160461.2 |        |
| 4250292 | FUJIFILM Business Innovation Corp.                     | 04/10/2022 | 4250292 | 22199497.3 |        |
| 4250678 | AVAGO TECHNOLOGIES INTERNATIONAL SALES PTE. LIMITED    | 21/03/2023 | 4250678 | 23163026.0 |        |
| 4250952 | Cargill, Incorporated                                  | 17/11/2021 | 4250952 | 21824217.0 |        |
| 4252044 | IFP Energies nouvelles                                 | 16/11/2021 | 4252044 | 21815172.8 | French |
| 4252687 | FUJIFILM Corporation                                   | 29/10/2021 | 4252687 | 21897632.2 |        |
| 4253005 | Stratasys Ltd.                                         | 29/05/2017 | 4253005 | 23186206.1 |        |
| 4253353 | Evonik Oxeno GmbH & Co. KG                             | 29/03/2022 | 4253353 | 22165010.4 | German |
| 4253430 | Kureha Corporation                                     | 25/11/2021 | 4253430 | 21898011.8 |        |
| 4253569 | Heilongjiang Eppen Biotech Co., Ltd.                   | 27/08/2020 | 4253569 | 23180518.5 |        |
| 4253616 | Trützschler Group SE                                   | 12/01/2023 | 4253616 | 23151316.9 | German |
| 4253671 | TOPCON CORPORATION                                     | 10/03/2023 | 4253671 | 23161191.4 |        |
| 4253767 | Microtecnica S.r.l.                                    | 29/03/2022 | 4253767 | 22425014.2 |        |
| 4254010 | Furuno Electric Company Limited                        | 27/02/2023 | 4254010 | 23158844.3 |        |
| 4254442 | Proterial, Ltd.                                        | 03/03/2023 | 4254442 | 23159894.7 |        |
| 4254895 | NTT DOCOMO, INC.                                       | 28/03/2022 | 4254895 | 22164664.9 |        |
| 4254933 | Magna Electronics Sweden AB                            | 29/03/2022 | 4254933 | 22165073.2 |        |
| 4255602 | Tree Associates Ltd.                                   | 03/12/2021 | 4255602 | 21819950.3 |        |
| 4256251 | Christian-Albrechts-Universität zu Kiel                | 30/11/2021 | 4256251 | 21824517.3 | German |
| 4256804 | Amazon Technologies, Inc.                              | 29/11/2021 | 4256804 | 21827800.0 |        |
| 4257006 | Decathlon                                              | 04/04/2023 | 4257006 | 23166615.7 | French |
| 4257754 | Hitachi Construction Machinery Co., Ltd.               | 12/11/2021 | 4257754 | 21903112.7 |        |
| 4257891 | DAIKIN INDUSTRIES, LTD.                                | 30/11/2021 | 4257891 | 21900594.9 |        |

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| 4258020 | Aptiv Technologies AG                                  | 06/03/2023 | 4258020 | 23160244.2 |        |
| 4258467 | Infineon Technologies AG                               | 07/04/2022 | 4258467 | 22167101.9 |        |
| 4258785 | Huawei Technologies Co. Ltd.                           | 31/12/2020 | 4258785 | 20967928.1 |        |
| 4259432 | Unilin, BV                                             | 02/12/2021 | 4259432 | 21819981.8 |        |
| 4259699 | W. R. Grace & Co.-Conn                                 | 06/12/2021 | 4259699 | 21904203.3 |        |
| 4259984 | Prihoda s.r.o.                                         | 14/12/2021 | 4259984 | 21851961.9 |        |
| 4260110 | Karl Storz Imaging, Inc.                               | 13/12/2021 | 4260110 | 21907558.7 |        |
| 4260302 | Ademco Inc.                                            | 09/12/2020 | 4260302 | 20964585.2 |        |
| 4260406 | Cellmax Technologies AB                                | 13/12/2021 | 4260406 | 21907239.4 |        |
| 4260672 | Deere & Company                                        | 13/03/2023 | 4260672 | 23161510.5 |        |
| 4261090 | KNORR-BREMSE Systeme für<br>Nutzfahrzeuge GmbH         | 14/04/2022 | 4261090 | 22168288.3 |        |
| 4261138 | Rolls-Royce plc                                        | 30/03/2023 | 4261138 | 23165313.0 |        |
| 4261341 | BSH Hausgeräte GmbH                                    | 11/04/2023 | 4261341 | 23167246.0 |        |
| 4262448 | Philip Morris Products, S.A.                           | 10/12/2021 | 4262448 | 21836463.6 |        |
| 4264003 | Schlumberger Technology B.V.                           | 15/12/2021 | 4264003 | 21908036.3 |        |
| 4264310 | QUALCOMM INCORPORATED                                  | 26/10/2021 | 4264310 | 21814976.3 |        |
| 4264537 | Fondation B-COM                                        | 21/12/2020 | 4264537 | 20859643.7 |        |
| 4264634 | Tokamak Energy Ltd                                     | 20/12/2021 | 4264634 | 21843920.6 |        |
| 4265106 | Revamp Corporation<br>The University of Tokyo          | 20/12/2021 | 4265106 | 21910727.3 |        |
| 4265477 | KOITO MANUFACTURING CO., LTD.                          | 06/12/2021 | 4265477 | 21906407.8 |        |
| 4265951 | Italmatic Presse e Stampi Srl                          | 19/12/2022 | 4265951 | 22214587.2 |        |
| 4265992 | Spraying Systems Co.                                   | 27/11/2019 | 4265992 | 23196389.3 |        |
| 4266153 | Samsung Display Co., Ltd.                              | 28/03/2023 | 4266153 | 23164857.7 |        |
| 4266394 | LG Energy Solution, Ltd.                               | 08/08/2022 | 4266394 | 22856134.6 |        |
| 4266464 | Contemporary Amperex Technology (Hong<br>Kong) Limited | 25/02/2022 | 4266464 | 22723957.1 |        |
| 4266939 | Lululemon Athletica Canada Inc.                        | 22/12/2021 | 4266939 | 21908207.0 |        |
| 4267838 | Safran Nacelles                                        | 21/12/2021 | 4267838 | 21843707.7 | French |
| 4268772 | Smith & Nephew, Inc.                                   | 26/10/2018 | 4268772 | 23192518.1 |        |
| 4268893 | Suntory Holdings Limited                               | 21/12/2021 | 4268893 | 21910791.9 |        |
| 4269200 | VOLKSWAGEN AG                                          | 06/04/2023 | 4269200 | 23166901.1 | German |
| 4269554 | Life Technologies Corporation                          | 31/12/2014 | 4269554 | 23192479.6 |        |
| 4269877 | EIKA, S.COOP.                                          | 20/12/2021 | 4269877 | 21836219.2 |        |
| 4270255 | TMRW Foundation IP SARL                                | 23/12/2020 | 4270255 | 23192006.7 |        |
| 4270382 | Huawei Technologies Co. Ltd.                           | 18/01/2022 | 4270382 | 22742133.6 |        |
| 4270390 | Telefonaktiebolaget LM Ericsson (publ)                 | 26/06/2019 | 4270390 | 23182371.7 |        |
| 4270572 | LG Energy Solution, Ltd.                               | 15/12/2022 | 4270572 | 22907952.0 |        |
| 4271548 | LEGO A/S                                               | 22/12/2021 | 4271548 | 21843966.9 |        |
| 4271945 | Air Installations OÜ                                   | 23/12/2021 | 4271945 | 21854689.3 |        |
| 4272616 | Bissell Inc.                                           | 02/05/2023 | 4272616 | 23170935.3 |        |
| 4273022 | Wonderland Switzerland AG                              | 11/09/2020 | 4273022 | 23199387.4 |        |
| 4273387 | Hamilton Sundstrand Corporation                        | 03/05/2023 | 4273387 | 23171374.4 |        |
| 4273395 | General Electric Renovables España S.L.                | 04/05/2022 | 4273395 | 22382427.7 |        |
| 4273459 | Samsung Electronics Co., Ltd.                          | 19/04/2018 | 4273459 | 23194397.8 |        |
| 4273647 | LG Energy Solution, Ltd.                               | 03/08/2022 | 4273647 | 22898760.8 |        |
| 4274366 | Sharp Kabushiki Kaisha                                 | 06/04/2012 | 4274366 | 23199040.9 |        |
| 4274963 | Wagner Spray Tech Corporation                          | 20/01/2022 | 4274963 | 22750168.1 |        |
| 4275324 | Nokia Technologies Oy                                  | 11/01/2021 | 4275324 | 21916881.2 |        |
| 4275871 | RITMO S.p.A.                                           | 27/04/2023 | 4275871 | 23170303.4 |        |
| 4275957 | Ichikoh Industries, Ltd.                               | 06/01/2022 | 4275957 | 22736768.7 |        |
| 4276827 | Lemon Inc.                                             | 31/01/2022 | 4276827 | 22750129.3 |        |
| 4276883 | Changxin Memory Technologies, Inc.                     | 12/01/2022 | 4276883 | 22868533.5 |        |
| 4276909 | Samsung Electronics Co., Ltd.                          | 30/03/2022 | 4276909 | 22784848.8 |        |
| 4276960 | LG Energy Solution, Ltd.                               | 19/07/2022 | 4276960 | 22898748.3 |        |
| 4277073 | Huawei Digital Power Technologies Co.,<br>Ltd.         | 04/02/2021 | 4277073 | 21923726.0 |        |
| 4277167 | Innowireless Co., Ltd.                                 | 08/05/2023 | 4277167 | 23172014.5 |        |
| 4277816 | Bayerische Motoren Werke<br>Aktiengesellschaft         | 02/12/2021 | 4277816 | 21835622.8 | German |
| 4277828 | Kupek GmbH                                             | 12/01/2022 | 4277828 | 22702151.6 | German |

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| 4278123 | Azenta US, Inc.                                                             | 14/01/2022 | 4278123 | 22702582.2 |        |
| 4278541 | Telefonaktiebolaget LM Ericsson (publ)                                      | 13/01/2022 | 4278541 | 22702329.8 |        |
| 4278774 | Lenovo (Beijing) Limited                                                    | 14/01/2021 | 4278774 | 21918349.8 |        |
| 4279185 | medmix Switzerland AG                                                       | 19/05/2022 | 4279185 | 22174250.5 |        |
| 4279195 | Braun GmbH                                                                  | 19/05/2023 | 4279195 | 23174240.4 |        |
| 4279717 | Caterpillar Energy Solutions GmbH                                           | 02/05/2023 | 4279717 | 23171007.0 |        |
| 4279825 | Carrier Corporation                                                         | 22/05/2023 | 4279825 | 23174660.3 |        |
| 4280025 | Samsung Display Co., Ltd.                                                   | 18/12/2019 | 4280025 | 23201111.4 |        |
| 4280133 | Honeywell International Inc.                                                | 02/05/2023 | 4280133 | 23171001.3 |        |
| 4280362 | Contemporary Amperex Technology (Hong Kong) Limited                         | 07/01/2022 | 4280362 | 22917859.5 |        |
| 4280386 | Legrand France<br>Legrand SNC                                               | 25/04/2023 | 4280386 | 23169822.6 | French |
| 4280467 | NTT, Inc.                                                                   | 13/01/2021 | 4280467 | 21919283.8 |        |
| 4280487 | Huawei Technologies Co. Ltd.                                                | 30/01/2021 | 4280487 | 21921921.9 |        |
| 4280512 | Huawei Technologies Co. Ltd.                                                | 09/02/2021 | 4280512 | 21925182.4 |        |
| 4280641 | Goodrich Lighting Systems GmbH & Co. KG                                     | 20/05/2022 | 4280641 | 22174553.2 |        |
| 4281402 | Oshkosh Corporation                                                         | 20/01/2022 | 4281402 | 22703513.6 |        |
| 4282455 | Fisher & Paykel Healthcare Limited                                          | 06/11/2015 | 4282455 | 23187835.6 |        |
| 4283041 | FLEYG AG                                                                    | 13/03/2023 | 4283041 | 23161403.3 | German |
| 4283330 | Hexagon Technology Center GmbH                                              | 23/05/2022 | 4283330 | 22174897.3 |        |
| 4283341 | MITSUBISHI ELECTRIC CORPORATION                                             | 26/02/2021 | 4283341 | 21927860.3 |        |
| 4283455 | Huawei Technologies Co. Ltd.                                                | 18/03/2021 | 4283455 | 21930830.1 |        |
| 4284693 | Mitsubishi Electric Corporation                                             | 17/09/2021 | 4284693 | 21795023.7 |        |
| 4285107 | Oligo Lichttechnik GmbH                                                     | 13/01/2022 | 4285107 | 22701269.7 | German |
| 4286219 | Hella Autotechnik Nova, s.r.o.                                              | 01/06/2022 | 4286219 | 22176668.6 |        |
| 4286590 | Nanjing Chervon Industry Co., Ltd.                                          | 09/03/2022 | 4286590 | 22790740.9 |        |
| 4286689 | LG Electronics, Inc.                                                        | 30/12/2022 | 4286689 | 22217320.5 |        |
| 4286932 | HKC Corporation Limited                                                     | 20/07/2022 | 4286932 | 22899917.3 |        |
| 4287172 | LG Electronics Inc.                                                         | 30/05/2023 | 4287172 | 23176069.5 |        |
| 4287184 | Huawei Technologies Co. Ltd.                                                | 20/12/2017 | 4287184 | 23186300.2 |        |
| 4287596 | Vivo Mobile Communication Co., Ltd.                                         | 28/03/2022 | 4287596 | 22778880.9 |        |
| 4288329 | Piaggio & C. SpA                                                            | 18/01/2022 | 4288329 | 22704796.6 |        |
| 4289596 | Suzhou Gienkee Plastic Technology Co., Ltd.                                 | 25/11/2021 | 4289596 | 21929925.2 |        |
| 4289610 | Continental Reifen Deutschland GmbH                                         | 12/05/2023 | 4289610 | 23173110.0 | German |
| 4290109 | Husqvarna AB                                                                | 08/06/2022 | 4290109 | 22177835.0 |        |
| 4290114 | Husqvarna AB                                                                | 08/06/2022 | 4290114 | 22177833.5 |        |
| 4290291 | Aidmics Biotechnology Co., Ltd.                                             | 02/06/2023 | 4290291 | 23177018.1 |        |
| 4290507 | Honor Device Co., Ltd.                                                      | 04/01/2023 | 4290507 | 23729932.6 |        |
| 4290662 | Nanjing Chervon Industry Co., Ltd.                                          | 03/03/2022 | 4290662 | 22787281.9 |        |
| 4290675 | SK On Co., Ltd.                                                             | 10/05/2023 | 4290675 | 23172646.4 |        |
| 4290759 | Volvo Car Corporation                                                       | 10/06/2022 | 4290759 | 22178497.8 |        |
| 4290767 | Diodes Incorporated                                                         | 22/05/2023 | 4290767 | 23174610.8 |        |
| 4291260 | B. Braun Avitum AG                                                          | 10/02/2022 | 4291260 | 22704389.0 |        |
| 4291965 | Robert Bosch GmbH                                                           | 05/01/2022 | 4291965 | 22700716.8 | German |
| 4292106 | Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO | 24/01/2022 | 4292106 | 22701279.6 |        |
| 4292185 | Siemens Gamesa Renewable Energy A/S                                         | 15/02/2022 | 4292185 | 22710309.0 |        |
| 4292474 | Di Lernia, Giulia Silvia                                                    | 08/08/2022 | 4292474 | 22189305.0 |        |
| 4292623 | BAXTER HEALTHCARE SA<br>Baxter International, Inc.                          | 17/06/2022 | 4292623 | 22179556.0 |        |
| 4292682 | Roland Corporation                                                          | 26/04/2023 | 4292682 | 23169966.1 |        |
| 4292974 | Avular Holding B.V.                                                         | 01/08/2022 | 4292974 | 22188037.0 |        |
| 4293182 | Hanchett Entry Systems, Inc.                                                | 15/06/2023 | 4293182 | 23179620.2 |        |
| 4293266 | Naber Holding GmbH & Co. KG                                                 | 25/05/2023 | 4293266 | 23175428.4 | German |
| 4293659 | xMEMS Labs, Inc.                                                            | 07/06/2023 | 4293659 | 23178067.7 |        |
| 4293700 | Impedans Ltd                                                                | 30/08/2021 | 4293700 | 23201341.7 |        |
| 4293928 | SoftBank Corp.                                                              | 12/01/2022 | 4293928 | 22752508.6 |        |
| 4293941 | Huawei Technologies Co. Ltd.                                                | 02/03/2022 | 4293941 | 22778451.9 |        |

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| 4294112 | Huawei Technologies Co. Ltd.                                          | 09/01/2023 | 4294112 | 23728250.4 |        |
| 4294293 | Precision Robotics Limited                                            | 07/02/2022 | 4294293 | 22704570.5 |        |
| 4294308 | Mazor Robotics Ltd.                                                   | 14/02/2022 | 4294308 | 22709061.0 |        |
| 4294486 | Ventis Medical, Inc.                                                  | 21/02/2022 | 4294486 | 22757066.0 |        |
| 4294869 | The Procter & Gamble Company                                          | 22/02/2022 | 4294869 | 22709488.5 |        |
| 4294890 | Merck Patent GmbH                                                     | 15/02/2022 | 4294890 | 22708854.9 | German |
| 4295197 | Microsoft Technology Licensing, LLC                                   | 11/01/2022 | 4295197 | 22703740.5 |        |
| 4295215 | Valeo Schalter und Sensoren GmbH                                      | 15/02/2022 | 4295215 | 22705399.8 |        |
| 4296032 | Autodesk, Inc.                                                        | 23/06/2023 | 4296032 | 23181307.2 |        |
| 4296047 | The Yokohama Rubber Co., Ltd.                                         | 11/10/2021 | 4296047 | 21926690.5 |        |
| 4296099 | HYUNDAI MOTOR COMPANY                                                 | 14/11/2022 | 4296099 | 22207173.0 |        |
|         | Kia Corporation                                                       |            |         |            |        |
| 4296555 | Hamilton Sundstrand Corporation                                       | 10/07/2019 | 4296555 | 23189635.8 |        |
| 4296559 | Cnooc Gas & Power Group                                               | 01/12/2022 | 4296559 | 22210867.2 |        |
| 4296619 | Commonwealth Scientific and Industrial Research Organisation          | 29/05/2023 | 4296619 | 23175910.1 |        |
| 4297258 | STMicroelectronics S.r.l.                                             | 08/06/2023 | 4297258 | 23178174.1 |        |
| 4297633 | Vibrosense Dynamics AB                                                | 17/02/2022 | 4297633 | 22707407.7 |        |
| 4298075 | SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN                | 04/02/2022 | 4298075 | 22705748.6 | French |
| 4298176 | Henkel AG & Co. KGaA                                                  | 24/02/2021 | 4298176 | 21927145.9 |        |
| 4298666 | Absolics Inc.                                                         | 28/04/2022 | 4298666 | 22796777.5 |        |
| 4299017 | Stryker Corporation                                                   | 24/07/2019 | 4299017 | 23209624.8 |        |
| 4299166 | Leibniz-Institut für Oberflächenmodifizierung e.V.                    | 11/05/2023 | 4299166 | 23172826.2 | German |
| 4299398 | BYD Company Limited                                                   | 31/05/2022 | 4299398 | 22827337.1 |        |
| 4299416 | thyssenkrupp Presta Aktiengesellschaft thyssenkrupp AG                | 27/06/2023 | 4299416 | 23181734.7 | German |
| 4299969 | Plitek, LLC                                                           | 19/06/2023 | 4299969 | 23180109.3 |        |
| 4300801 | SHANGHAI CHENZHU INSTRUMENT CO., LTD.                                 | 17/06/2022 | 4300801 | 22902458.3 |        |
| 4300893 | Siemens Aktiengesellschaft                                            | 01/07/2022 | 4300893 | 22182566.4 | German |
| 4301129 | Magron Ltd                                                            | 02/03/2022 | 4301129 | 22707836.7 |        |
| 4301966 | Siemens Energy Global GmbH & Co. KG                                   | 25/04/2022 | 4301966 | 22777178.9 | German |
| 4302175 | Domino UK Limited                                                     | 07/03/2022 | 4302175 | 22713877.3 |        |
| 4303126 | B/E Aerospace, Inc.                                                   | 07/07/2023 | 4303126 | 23184177.6 |        |
| 4303397 | National Oilwell Varco, L.P.                                          | 29/04/2019 | 4303397 | 23211622.8 |        |
| 4303910 | Changxin Memory Technologies, Inc.                                    | 16/06/2022 | 4303910 | 22925225.9 |        |
| 4304155 | Huawei Technologies Co. Ltd.                                          | 22/03/2022 | 4304155 | 22778673.8 |        |
| 4304351 | Exel Industries                                                       | 23/02/2022 | 4304351 | 22707453.1 | French |
| 4304512 | Neo Medical SA                                                        | 01/03/2022 | 4304512 | 22717426.5 |        |
| 4306030 | Illinois Tool Works Inc.                                              | 14/07/2023 | 4306030 | 23185609.7 | German |
| 4306093 | The Procter & Gamble Company                                          | 27/03/2020 | 4306093 | 23213357.9 |        |
| 4306387 | Continental Reifen Deutschland GmbH                                   | 08/06/2023 | 4306387 | 23178152.7 | German |
| 4307471 | Meta Platforms Technologies, LLC                                      | 10/07/2023 | 4307471 | 23184420.0 |        |
| 4308837 | Eaton Intelligent Power Limited                                       | 11/03/2022 | 4308837 | 22713260.2 |        |
| 4308873 | Valeo Autosystemy Sp. z o.o.                                          | 23/02/2022 | 4308873 | 22707173.5 |        |
| 4310267 | Hydro Building Systems Lüdenscheid GmbH                               | 06/07/2023 | 4310267 | 23183774.1 | German |
| 4310352 | Kabushiki Kaisha F.C.C.                                               | 21/07/2023 | 4310352 | 23187020.5 |        |
| 4310831 | recalm GmbH                                                           | 12/07/2023 | 4310831 | 23184981.1 |        |
| 4311216 | Canon Kabushiki Kaisha                                                | 17/07/2023 | 4311216 | 23185887.9 |        |
| 4311783 | Airbus Operations SAS                                                 | 18/07/2023 | 4311783 | 23186226.9 | French |
| 4311856 | Instytut Ogrodnictwa - Panstwowy Instytut Badawczy INTERMAG SP. Z O.O | 24/07/2023 | 4311856 | 23187343.1 |        |
| 4311950 | DN Automotive Corporation                                             | 29/09/2022 | 4311950 | 22198831.4 |        |
| 4312501 | MacDon Industries Ltd.                                                | 29/03/2022 | 4312501 | 22716781.4 |        |
| 4312881 | OTT SOLUTIONS                                                         | 06/05/2021 | 4312881 | 21939951.6 |        |
| 4312932 | Njord International AB                                                | 29/03/2022 | 4312932 | 22781756.6 |        |

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| 4313649 | Bayerische Motoren Werke<br>Aktiengesellschaft     | 08/03/2022 | 4313649 | 22711034.3 | German |
| 4314643 | PROPULSION SYSTEMS                                 | 17/03/2022 | 4314643 | 22714207.2 |        |
| 4314901 | Koninklijke Philips N.V.                           | 17/03/2022 | 4314901 | 22716032.2 |        |
| 4314958 | Telefonaktiebolaget LM Ericsson (publ)             | 29/03/2021 | 4314958 | 21716314.6 |        |
| 4316301 | Song, Soo Bok                                      | 10/12/2022 | 4316301 | 22927469.1 |        |
| 4316875 | Schaeffler Technologies AG & Co. KG                | 30/03/2021 | 4316875 | 21729794.4 |        |
| 4317548 | Mitsui Mining & Smelting Co., Ltd.                 | 17/02/2022 | 4317548 | 22779626.5 |        |
| 4317655 | PRATT & WHITNEY CANADA CORP.                       | 27/11/2020 | 4317655 | 23208052.3 |        |
| 4317962 | Sperry Rail, Inc.                                  | 04/12/2020 | 4317962 | 23217517.4 |        |
| 4318113 | TOPPAN INC.                                        | 31/03/2022 | 4318113 | 22781279.9 |        |
| 4318188 | EM Microelectronic-Marin SA                        | 05/08/2022 | 4318188 | 22189076.7 |        |
| 4318630 | Asahi Kasei Kabushiki Kaisha                       | 25/03/2022 | 4318630 | 22775853.9 |        |
| 4318826 | ShinMaywa Industries, Ltd.                         | 17/03/2022 | 4318826 | 22780199.0 |        |
| 4318858 | Hefei Yitong Electronic Technology Co.,<br>Ltd     | 15/03/2022 | 4318858 | 22777585.5 |        |
| 4319702 | Oxford Healthtech Ltd.                             | 06/04/2022 | 4319702 | 22717885.2 |        |
| 4321105 | Boston Scientific Scimed, Inc.                     | 29/04/2020 | 4321105 | 23211268.0 |        |
| 4321435 | B/E Aerospace, Inc.                                | 04/08/2023 | 4321435 | 23189703.4 |        |
| 4321610 | Qingdao Ruiside Biological Technology<br>Co., Ltd. | 04/01/2023 | 4321610 | 23728575.4 |        |
| 4321787 | Funke Kunststoffe GmbH                             | 31/07/2023 | 4321787 | 23188808.2 | German |
| 4322279 | LG Energy Solution, Ltd.                           | 10/01/2023 | 4322279 | 23737493.9 |        |
| 4322297 | LG Energy Solution, Ltd.                           | 03/11/2022 | 4322297 | 22895910.2 |        |
| 4323478 | Powercrumbs B.V.                                   | 14/04/2022 | 4323478 | 22717681.5 |        |
| 4324051 | HARTING Electric Stiftung & Co. KG                 | 28/03/2022 | 4324051 | 22716322.7 | German |
| 4324145 | QUALCOMM INCORPORATED                              | 15/03/2022 | 4324145 | 22717959.5 |        |
| 4324149 | Samsung Electronics Co., Ltd.                      | 17/05/2022 | 4324149 | 22804968.0 |        |
| 4325347 | Samsung Electronics Co., Ltd.                      | 05/07/2023 | 4325347 | 23183520.8 |        |
| 4325568 | Senju Metal Industry Co., Ltd.                     | 18/04/2022 | 4325568 | 22795610.9 |        |
| 4325877 | Honor Device Co., Ltd.                             | 05/05/2023 | 4325877 | 23764816.7 |        |
| 4325880 | Beijing Xiaomi Mobile Software Co., Ltd.           | 19/08/2022 | 4325880 | 22191207.4 |        |
| 4326188 | Implant Protesis Dental 2004 S.L.                  | 13/04/2022 | 4326188 | 22722743.6 |        |
| 4326501 | C&B Logistics BV                                   | 22/04/2022 | 4326501 | 22723478.8 |        |
| 4327181 | Apple Inc.                                         | 20/05/2022 | 4327181 | 22731014.1 |        |
| 4327187 | Salient World AS                                   | 19/04/2022 | 4327187 | 22722284.1 |        |
| 4327300 | Smartcloudfarming GmbH                             | 21/04/2022 | 4327300 | 22725170.9 |        |
| 4327898 | ASICS Corporation                                  | 25/05/2021 | 4327898 | 21942952.9 |        |
| 4328462 | Siemens Mobility GmbH                              | 17/08/2023 | 4328462 | 23191910.1 | German |
| 4328601 | LG Energy Solution, Ltd.                           | 20/12/2022 | 4328601 | 22919063.2 |        |
| 4329277 | Honor Device Co., Ltd.                             | 12/04/2023 | 4329277 | 23805840.8 |        |
| 4329458 | Samsung Display Co., Ltd.                          | 02/08/2013 | 4329458 | 23185372.2 |        |
| 4329523 | TEWS Elektronik GmbH & Co. KG                      | 26/04/2022 | 4329523 | 22725790.4 | German |
| 4329589 | The Boeing Company                                 | 30/03/2022 | 4329589 | 22721518.3 |        |
| 4330134 | Acery France SAS                                   | 21/04/2022 | 4330134 | 22733719.3 |        |
| 4330454 | Nike Innovate C.V.                                 | 27/04/2022 | 4330454 | 22724972.9 |        |
| 4330816 | Microsoft Technology Licensing, LLC                | 13/06/2022 | 4330816 | 22735280.4 |        |
| 4331525 | Intuitive Surgical Operations, Inc.                | 19/02/2019 | 4331525 | 24152863.7 |        |
| 4332253 | JFE Steel Corporation                              | 19/05/2022 | 4332253 | 22820019.2 |        |
| 4332261 | NIPPON STEEL CORPORATION                           | 14/03/2022 | 4332261 | 22795322.1 |        |
| 4332403 | Siemens Mobility GmbH                              | 14/08/2023 | 4332403 | 23191284.1 | German |
| 4332648 | Optek Systems, Inc.                                | 25/08/2023 | 4332648 | 23193560.2 |        |
| 4332776 | Huawei Technologies Co., Ltd.                      | 06/04/2022 | 4332776 | 22794533.4 |        |
| 4333671 | Harrison, Ronald                                   | 04/05/2022 | 4333671 | 22798471.3 |        |
| 4333784 | The Procter & Gamble Company                       | 04/05/2022 | 4333784 | 22725081.8 |        |
| 4334142 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN  | 04/04/2022 | 4334142 | 22718754.9 | French |
| 4334297 | BASF SE                                            | 04/05/2022 | 4334297 | 22727132.7 |        |
| 4334605 | KNORR-BREMSE Systeme für<br>Schienenfahrzeuge GmbH | 22/04/2022 | 4334605 | 22728041.9 | German |
| 4334891 | Samsung Electronics Co., Ltd.                      | 15/11/2022 | 4334891 | 22893318.0 |        |
| 4335398 | Deneb Medical, S.L.                                | 07/05/2021 | 4335398 | 21736351.4 |        |

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| 4335432 | Guangzhou Joyson Cleaning Products Co., Ltd.                                        | 12/07/2023 | 4335432 | 23751841.0 |        |
| 4335790 | Contemporary Ampere Technology (Hong Kong) Limited                                  | 12/04/2023 | 4335790 | 23167508.3 |        |
| 4336116 | Daikin Industries, Ltd.                                                             | 06/05/2022 | 4336116 | 22798964.7 |        |
| 4336173 | AMAG casting GmbH                                                                   | 11/09/2023 | 4336173 | 23196637.5 | German |
| 4336336 | Huawei Technologies Co. Ltd.                                                        | 07/04/2022 | 4336336 | 22823871.3 |        |
| 4336490 | Huawei Technologies Co., Ltd.                                                       | 25/05/2022 | 4336490 | 22815107.2 |        |
| 4337003 | Innovafeed                                                                          | 09/05/2022 | 4337003 | 22727373.7 | French |
| 4337079 | Boston Scientific Scimed, Inc.<br>Worcester Polytechnic Institute                   | 11/05/2022 | 4337079 | 22726949.5 |        |
| 4337495 | VOLKSWAGEN<br>AKTIENGESELLSCHAFT                                                    | 26/04/2022 | 4337495 | 22725787.0 | German |
| 4337846 | ZF Friedrichshafen AG                                                               | 05/05/2022 | 4337846 | 22728121.9 | German |
| 4339036 | GEDIA Gebrüder Dingerkus GmbH                                                       | 18/08/2023 | 4339036 | 23192056.2 | German |
| 4339164 | LG Energy Solution, Ltd.                                                            | 15/05/2019 | 4339164 | 24155268.6 |        |
| 4339298 | Fred Hutchinson Cancer Center                                                       | 25/09/2018 | 4339298 | 23211759.8 |        |
| 4339933 | View, Inc.                                                                          | 20/06/2014 | 4339933 | 24154933.6 |        |
| 4340016 | Huawei Digital Power Technologies Co., Ltd.                                         | 15/09/2023 | 4340016 | 23197590.5 |        |
| 4340382 | Honor Device Co., Ltd.                                                              | 28/12/2022 | 4340382 | 22928463.3 |        |
| 4340531 | QUALCOMM Incorporated                                                               | 20/06/2019 | 4340531 | 24154802.3 |        |
| 4341164 | Peleman Industries NV                                                               | 13/05/2022 | 4341164 | 22726301.9 |        |
| 4341220 | NG Nordic Finland Oy                                                                | 13/03/2023 | 4341220 | 23710051.6 |        |
| 4341569 | SEW-EURODRIVE GmbH & Co. KG                                                         | 20/04/2022 | 4341569 | 22723451.5 | German |
| 4341661 | Sew-Eurodrive GmbH & Co. KG                                                         | 27/04/2022 | 4341661 | 22725366.3 | German |
| 4342140 | Telefonaktiebolaget LM Ericsson (publ)                                              | 17/05/2021 | 4342140 | 21728471.0 |        |
| 4342511 | Aptar Radolfzell GmbH                                                               | 23/09/2022 | 4342511 | 22197306.8 |        |
| 4342675 | SCREEN Holdings Co., Ltd.                                                           | 30/08/2023 | 4342675 | 23194175.8 |        |
| 4342795 | Telair International GmbH                                                           | 05/05/2022 | 4342795 | 23220738.1 | German |
| 4343370 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                                 | 15/06/2021 | 4343370 | 21945418.8 |        |
| 4343617 | 3A Logistics Inc.                                                                   | 26/04/2023 | 4343617 | 23170066.7 |        |
| 4343659 | Tata Consultancy Services Limited                                                   | 21/08/2023 | 4343659 | 23192459.8 |        |
| 4343969 | Honor Device Co., Ltd.                                                              | 27/08/2022 | 4343969 | 22909347.1 |        |
| 4344333 | QUALCOMM Incorporated                                                               | 20/02/2020 | 4344333 | 24156667.8 |        |
| 4344948 | Bike Basics GmbH                                                                    | 16/06/2023 | 4344948 | 23179698.8 |        |
| 4345088 | Covestro Deutschland AG                                                             | 29/09/2022 | 4345088 | 22198787.8 |        |
| 4345147 | Carbolig GmbH                                                                       | 20/09/2023 | 4345147 | 23000125.7 | German |
| 4345612 | Huawei Technologies Co., Ltd.                                                       | 05/09/2022 | 4345612 | 22866538.6 |        |
| 4346526 | Thermos K.K.<br>Thermos L.L.C.                                                      | 13/01/2022 | 4346526 | 22700257.3 |        |
| 4347790 | Quince Therapeutics S.p.A.                                                          | 18/05/2022 | 4347790 | 22726528.7 |        |
| 4349676 | NISSAN MOTOR CO., LTD.                                                              | 28/05/2021 | 4349676 | 21942153.4 |        |
| 4350578 | Samsung Electronics Co., Ltd.<br>Korea Advanced Institute of Science and Technology | 06/10/2023 | 4350578 | 23202140.2 |        |
| 4350628 | Contemporary Ampere Technology (Hong Kong) Limited                                  | 29/03/2023 | 4350628 | 23790527.8 |        |
| 4350662 | NISSAN MOTOR CO., LTD.                                                              | 28/05/2021 | 4350662 | 21942149.2 |        |
| 4350697 | Silicon Storage Technology, Inc.                                                    | 22/05/2020 | 4350697 | 24159590.9 |        |
| 4350727 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                                  | 03/10/2023 | 4350727 | 23201461.3 |        |
| 4351326 | INNOVATEC HOLDING II B.V.                                                           | 08/06/2022 | 4351326 | 22737527.6 |        |
| 4352588 | Microsoft Technology Licensing, LLC                                                 | 11/05/2022 | 4352588 | 22730645.3 |        |
| 4353171 | Biosense Webster (Israel) Ltd.                                                      | 09/07/2020 | 4353171 | 24161116.9 |        |
| 4353496 | BRIDGESTONE CORPORATION                                                             | 23/06/2022 | 4353496 | 22903764.3 |        |
| 4353647 | Otis Elevator Company                                                               | 20/08/2019 | 4353647 | 24160992.4 |        |
| 4353842 | JFE Steel Corporation                                                               | 12/05/2022 | 4353842 | 22819989.9 |        |
| 4354130 | The Japan Steel Works, Ltd.                                                         | 28/04/2022 | 4354130 | 22819970.9 |        |
| 4354380 | Daikin Industries, Ltd.                                                             | 10/06/2022 | 4354380 | 22820343.6 |        |
| 4354818 | Huawei Technologies Co., Ltd.                                                       | 25/05/2022 | 4354818 | 22815104.9 |        |

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| 4355237 | Covidien LP                                                                                                       | 06/06/2022 | 4355237 | 22732661.8 |        |
| 4355546 | Persico S.p.A.                                                                                                    | 18/05/2022 | 4355546 | 22730994.5 |        |
| 4355980 | BAKER HUGHES HOLDINGS LLC                                                                                         | 16/06/2022 | 4355980 | 22825788.7 |        |
| 4356018 | KNORR-BREMSE Systeme für<br>Nutzfahrzeuge GmbH                                                                    | 10/06/2022 | 4356018 | 22732538.8 | German |
| 4356372 | Google Inc.                                                                                                       | 06/06/2023 | 4356372 | 23736905.3 |        |
| 4356859 | Jeisys Medical Inc.                                                                                               | 13/06/2022 | 4356859 | 22846046.5 |        |
| 4356908 | Toray Industries, Inc.                                                                                            | 15/06/2022 | 4356908 | 22825019.7 |        |
| 4356985 | Guangzhou Ganyuan Intelligent<br>Technology Co., Ltd.                                                             | 24/02/2023 | 4356985 | 23158373.3 |        |
| 4357103 | Olmedo Tejedor Lda.                                                                                               | 16/10/2023 | 4357103 | 23203755.6 |        |
| 4357209 | ZF CV Systems Global GmbH                                                                                         | 21/10/2022 | 4357209 | 22203042.1 |        |
| 4357887 | JVCKENWOOD Corporation                                                                                            | 10/03/2022 | 4357887 | 22845620.8 |        |
| 4358363 | Honor Device Co., Ltd.                                                                                            | 14/02/2023 | 4358363 | 23833561.6 |        |
| 4358492 | GEOTAB Inc.                                                                                                       | 29/09/2023 | 4358492 | 23200949.8 |        |
| 4358582 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                           | 23/07/2021 | 4358582 | 21950554.2 |        |
| 4358597 | Huawei Technologies Co., Ltd.                                                                                     | 01/04/2022 | 4358597 | 22844882.5 |        |
| 4358928 | Unilever Global IP Limited                                                                                        | 18/05/2022 | 4358928 | 22730147.0 |        |
| 4359649 | SAFRAN AIRCRAFT ENGINES                                                                                           | 16/06/2022 | 4359649 | 22744251.4 | French |
| 4360604 | The Procter & Gamble Company                                                                                      | 14/05/2013 | 4360604 | 24161819.8 |        |
| 4360844 | BRIDGESTONE CORPORATION                                                                                           | 24/11/2021 | 4360844 | 21947219.8 |        |
| 4361003 | Kubota Corporation                                                                                                | 26/10/2022 | 4361003 | 22203955.4 |        |
| 4361290 | Regeneron Pharmaceuticals, Inc.                                                                                   | 25/03/2016 | 4361290 | 24161139.1 |        |
| 4361442 | DAIKIN INDUSTRIES, LTD.                                                                                           | 04/07/2022 | 4361442 | 22852766.9 |        |
| 4361753 | Five AI Limited                                                                                                   | 28/01/2021 | 4361753 | 24163038.3 |        |
| 4361908 | BRIDGESTONE CORPORATION                                                                                           | 29/03/2022 | 4361908 | 22828025.1 |        |
| 4362516 | Huawei Technologies Co., Ltd.                                                                                     | 18/07/2022 | 4362516 | 22848319.4 |        |
| 4362656 | Upcycled Plant Power (UPP) Limited                                                                                | 24/06/2022 | 4362656 | 22737662.1 |        |
| 4362834 | Boston Scientific Scimed, Inc.<br>Boston Scientific Medical Device Limited                                        | 27/06/2022 | 4362834 | 22748122.3 |        |
| 4363660 | Södra Skogsägarna ekonomisk förening                                                                              | 04/05/2022 | 4363660 | 22728057.5 |        |
| 4363803 | Sendance GmbH                                                                                                     | 23/06/2022 | 4363803 | 22743702.7 | German |
| 4364821 | Universal City Studios LLC                                                                                        | 07/05/2020 | 4364821 | 24165705.5 |        |
| 4365032 | NISSAN MOTOR CO., LTD.                                                                                            | 30/06/2021 | 4365032 | 21947361.8 |        |
| 4365385 | VKR Holding A/S                                                                                                   | 07/11/2023 | 4365385 | 23208200.8 |        |
| 4365726 | Canva Pty Ltd.                                                                                                    | 28/06/2021 | 4365726 | 24165615.6 |        |
| 4366888 | Gema Switzerland GmbH                                                                                             | 05/07/2022 | 4366888 | 22741497.6 | German |
| 4367407 | SENS-IN S.r.l.                                                                                                    | 07/07/2022 | 4367407 | 22747758.5 |        |
| 4368029 | Suprême                                                                                                           | 09/11/2022 | 4368029 | 22315270.3 |        |
| 4368244 | Boston Scientific Neuromodulation<br>Corporation                                                                  | 13/01/2020 | 4368244 | 24163307.2 |        |
| 4368465 | UISEE Technologies (Beijing) Ltd.                                                                                 | 22/04/2022 | 4368465 | 22859896.7 |        |
| 4369228 | Rockwell Automation Technologies, Inc.                                                                            | 10/11/2023 | 4369228 | 23209038.1 |        |
| 4369881 | Changxin Memory Technologies, Inc.                                                                                | 02/06/2023 | 4369881 | 23809952.7 |        |
| 4370260 | SAFRAN                                                                                                            | 06/07/2022 | 4370260 | 22751131.8 | French |
| 4370262 | SAFRAN                                                                                                            | 08/07/2022 | 4370262 | 22755244.5 | French |
| 4370392 | Ampere SAS<br>Nissan Motor Co., Ltd.                                                                              | 13/07/2022 | 4370392 | 22741316.8 | French |
| 4371756 | puren GmbH                                                                                                        | 15/11/2022 | 4371756 | 22207501.2 | German |
| 4371884 | Korea Aerospace Research Institute                                                                                | 16/11/2023 | 4371884 | 23210303.6 |        |
| 4372292 | HEFEI MIDEA HEATING &<br>VENTILATING EQUIPMENT CO., LTD.<br>GD Midea Heating & Ventilating<br>Equipment Co., Ltd. | 23/03/2022 | 4372292 | 22840975.1 |        |
| 4372629 | Alice & Bob                                                                                                       | 16/11/2022 | 4372629 | 22306685.3 |        |
| 4373133 | RealMe Chongqing Mobile<br>Telecommunications Corp., Ltd.                                                         | 02/06/2022 | 4373133 | 22841078.3 |        |
| 4373415 | A2M                                                                                                               | 19/07/2022 | 4373415 | 22754485.5 | French |
| 4373664 | Valmet Tissue Converting S.p.A.                                                                                   | 19/07/2022 | 4373664 | 22751394.2 |        |
| 4374179 | Egston System Electronics Eggenburg<br>GmbH                                                                       | 19/07/2022 | 4374179 | 22748051.4 | German |



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| 4374873 | Astellas US LLC                                                                                 | 11/07/2014 | 4374873 | 24164640.5 | French |
| 4374983 | Primetals Technologies Japan, Ltd.                                                              | 07/09/2021 | 4374983 | 21956708.8 |        |
| 4375231 | L'AIR LIQUIDE, SOCIETE ANONYME<br>POUR L'ETUDE ET L'EXPLOITATION<br>DES PROCEDES GEORGES CLAUDE | 31/10/2023 | 4375231 | 23206985.6 |        |
| 4375786 | Nabtesco Corporation<br>Tokyo Keiki Inc.                                                        | 25/10/2023 | 4375786 | 23205824.8 |        |
| 4376248 | Hithium Tech HK Limited                                                                         | 14/11/2023 | 4376248 | 23209663.6 | German |
| 4376366 | Seoul National University R&DB<br>Foundation<br>Samsung Electronics Co., Ltd.                   | 07/07/2022 | 4376366 | 22861543.1 |        |
| 4376390 | Huawei Technologies Co. Ltd.                                                                    | 11/11/2016 | 4376390 | 24151148.4 |        |
| 4376550 | Xiamen PVTECH Co., Ltd.                                                                         | 21/03/2023 | 4376550 | 23163231.6 |        |
| 4376609 | crop.zone GmbH                                                                                  | 26/07/2023 | 4376609 | 23748509.9 | German |
| 4376746 | Boston Scientific Scimed, Inc.                                                                  | 27/07/2022 | 4376746 | 22757744.2 |        |
| 4376905 | Iberhospitex, S.A.                                                                              | 25/07/2022 | 4376905 | 22743514.6 |        |
| 4377037 | Audi AG<br>Audi Hungaria ZRT                                                                    | 20/07/2022 | 4377037 | 22755092.8 |        |
| 4377558 | TotalEnergies OneTech                                                                           | 28/07/2022 | 4377558 | 22751763.8 | German |
| 4377589 | Sew-Eurodrive GmbH & Co. KG                                                                     | 27/06/2022 | 4377589 | 22737555.7 |        |
| 4377782 | NetApp, Inc.                                                                                    | 29/07/2022 | 4377782 | 22757757.4 |        |
| 4379229 | ZF CV Systems Global GmbH                                                                       | 01/12/2022 | 4379229 | 22210838.3 |        |
| 4379620 | Panasonic Intellectual Property<br>Management Co., Ltd.                                         | 26/05/2022 | 4379620 | 22849013.2 | German |
| 4380408 | Braun GmbH                                                                                      | 04/08/2022 | 4380408 | 22757671.7 |        |
| 4380409 | Braun GmbH                                                                                      | 04/08/2022 | 4380409 | 22757672.5 |        |
| 4381525 | Bin Mustapha @ Pa, Azrudi<br>Ardron, Keith Henry                                                | 02/08/2022 | 4381525 | 22761094.6 |        |
| 4381695 | Koninklijke Philips N.V.                                                                        | 29/07/2022 | 4381695 | 22758485.1 | German |
| 4381997 | Xiamen Xirui Imp&Exp Co., Ltd.                                                                  | 07/11/2022 | 4381997 | 22945118.2 |        |
| 4382002 | Milwaukee Electric Tool Corporation                                                             | 13/11/2023 | 4382002 | 23209338.5 |        |
| 4382049 | GE Precision Healthcare LLC                                                                     | 06/12/2023 | 4382049 | 23214534.2 |        |
| 4382467 | TMT Machinery, Inc.                                                                             | 14/11/2023 | 4382467 | 23209674.3 | German |
| 4382744 | Wobben Properties GmbH                                                                          | 09/12/2022 | 4382744 | 22212585.8 |        |
| 4382756 | Huawei Technologies Co. Ltd.                                                                    | 19/09/2022 | 4382756 | 22874693.9 |        |
| 4383050 | Samsung Electronics Co., Ltd.                                                                   | 24/10/2023 | 4383050 | 23789481.1 |        |
| 4383261 | Samsung Electronics Co., Ltd.                                                                   | 31/07/2023 | 4383261 | 23188654.0 | German |
| 4383532 | MITSUBISHI ELECTRIC<br>CORPORATION<br>OSAKA UNIVERSITY                                          | 02/08/2021 | 4383532 | 21952686.0 |        |
| 4384334 | Bendforce GmbH                                                                                  | 11/08/2022 | 4384334 | 22765456.3 |        |
| 4384341 | Bräuer Systemtechnik GmbH                                                                       | 10/08/2021 | 4384341 | 21759064.5 | German |
| 4384438 | ZF Friedrichshafen AG                                                                           | 27/07/2022 | 4384438 | 22757919.0 |        |
| 4384490 | ExxonMobil Chemical Patents Inc.                                                                | 20/07/2022 | 4384490 | 22754629.8 |        |
| 4385693 | Unilin, BV                                                                                      | 06/12/2023 | 4385693 | 23214695.1 |        |
| 4385694 | Ledermann GmbH & Co. KG                                                                         | 16/12/2022 | 4385694 | 22214270.5 | German |
| 4385952 | Samsung SDI Co., Ltd.                                                                           | 07/08/2023 | 4385952 | 23190091.1 |        |
| 4386671 | Google LLC                                                                                      | 14/12/2023 | 4386671 | 23216598.5 |        |
| 4387410 | GlobalFoundries U.S. Inc.                                                                       | 14/09/2023 | 4387410 | 23197413.0 |        |
| 4387544 | Boston Scientific Scimed Inc.                                                                   | 16/08/2022 | 4387544 | 22764576.9 | French |
| 4387707 | Fineheart                                                                                       | 01/12/2022 | 4387707 | 22826818.1 |        |
| 4388161 | VKR Holding A/S                                                                                 | 11/08/2022 | 4388161 | 22764719.5 |        |
| 4388687 | Huawei Technologies Co. Ltd.                                                                    | 07/09/2022 | 4388687 | 22783127.8 |        |
| 4388850 | CNH Industrial Belgium N.V.                                                                     | 19/12/2022 | 4388850 | 22214768.8 | German |
| 4388854 | CNH Industrial Belgium N.V.                                                                     | 19/12/2022 | 4388854 | 22214763.9 |        |
| 4388915 | ASICS Corporation                                                                               | 05/10/2021 | 4388915 | 21959861.2 |        |
| 4388939 | Aran World S.r.l.                                                                               | 19/12/2023 | 4388939 | 23218232.9 |        |
| 4389335 | Agie Charmilles SA                                                                              | 23/12/2022 | 4389335 | 22216266.1 | German |
| 4389598 | AIRBUS HELICOPTERS<br>DEUTSCHLAND GmbH                                                          | 21/12/2022 | 4389598 | 22215343.9 |        |
| 4390006 | Trina Solar Co., Ltd                                                                            | 08/05/2023 | 4390006 | 23813253.4 |        |
| 4390629 | Rockwell Collins, Inc.                                                                          | 21/11/2023 | 4390629 | 23211119.5 |        |

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| 4390760 | Adapa Digital GesmbH                                                                                 | 14/12/2023 | 4390760 | 23216806.2 | German |
| 4391240 | Huawei Technologies Co. Ltd.                                                                         | 11/08/2022 | 4391240 | 22874450.4 |        |
| 4391559 | Broadpeak                                                                                            | 20/12/2022 | 4391559 | 22306960.0 |        |
| 4391620 | Kigen (UK) Limited                                                                                   | 20/12/2022 | 4391620 | 22306951.9 |        |
| 4392331 | Space Forge Limited                                                                                  | 30/08/2022 | 4392331 | 22768922.1 |        |
| 4393044 | Samsung Electronics Co., Ltd.                                                                        | 08/02/2022 | 4393044 | 22907573.4 |        |
| 4393744 | Hyundai Mobis Co., Ltd.                                                                              | 30/03/2023 | 4393744 | 23165468.2 |        |
| 4393871 | L'AIR LIQUIDE SOCIETE ANONYME<br>POUR L'ETUDE ET<br>L'EXPLOITATION DES PROCEDES<br>GEORGES CLAUDE    | 01/12/2023 | 4393871 | 23213760.4 |        |
| 4394393 | Melexis Technologies SA                                                                              | 28/12/2022 | 4394393 | 22217036.7 |        |
| 4395369 | Huawei Technologies Co. Ltd.                                                                         | 22/09/2022 | 4395369 | 22874767.1 |        |
| 4395569 | Philip Morris Products, S.A.                                                                         | 29/08/2022 | 4395569 | 22768425.5 |        |
| 4395806 | Unichem Laboratories Ltd                                                                             | 27/08/2022 | 4395806 | 22777702.6 |        |
| 4395908 | Brugniaux, Maxime                                                                                    | 31/08/2022 | 4395908 | 22773753.3 | French |
| 4396058 | Bayerische Motoren Werke<br>Aktiengesellschaft                                                       | 29/08/2022 | 4396058 | 22769271.2 | German |
| 4396707 | Visa International Service Association                                                               | 31/08/2021 | 4396707 | 21956228.7 |        |
| 4397601 | SULO France                                                                                          | 05/01/2024 | 4397601 | 24150459.6 | French |
| 4397658 | LG Chem, Ltd.                                                                                        | 17/01/2023 | 4397658 | 23740545.1 |        |
| 4398024 | InnoLux Corporation                                                                                  | 12/12/2023 | 4398024 | 23215763.6 |        |
| 4398872 | Zealand Pharma A/S                                                                                   | 08/09/2022 | 4398872 | 22765583.4 |        |
| 4399379 | Kiekert Aktiengesellschaft                                                                           | 19/08/2022 | 4399379 | 22761389.0 | German |
| 4399386 | FMC Technologies, Inc.                                                                               | 14/07/2022 | 4399386 | 22754218.0 |        |
| 4400073 | Nulty, Adam Brian                                                                                    | 10/01/2023 | 4400073 | 23150993.6 |        |
| 4400145 | Fisher & Paykel Healthcare Limited                                                                   | 31/10/2012 | 4400145 | 24166823.5 |        |
| 4400187 | Skyventure International (UK) Ltd.                                                                   | 16/11/2019 | 4400187 | 24154079.8 |        |
| 4400207 | Cirkul, Inc.                                                                                         | 27/08/2019 | 4400207 | 24177797.8 |        |
| 4400225 | Fives DMS                                                                                            | 08/01/2024 | 4400225 | 24150741.7 | French |
| 4400322 | Seiko Epson Corporation                                                                              | 10/01/2024 | 4400322 | 24151247.4 |        |
| 4400559 | Samsung Display Co., Ltd.                                                                            | 14/12/2023 | 4400559 | 23216879.9 |        |
| 4400952 | Vivo Mobile Communication Co., Ltd.                                                                  | 06/09/2022 | 4400952 | 22866578.2 |        |
| 4401013 | MITSUBISHI ELECTRIC<br>CORPORATION                                                                   | 21/10/2021 | 4401013 | 21961397.3 |        |
| 4401152 | Zhejiang Jinko Solar Co., Ltd.<br>JINKO SOLAR CO., LTD                                               | 28/04/2023 | 4401152 | 23170534.4 |        |
| 4401369 | Nokia Technologies Oy                                                                                | 11/12/2023 | 4401369 | 23215460.9 |        |
| 4401500 | Sony Group Corporation                                                                               | 10/01/2020 | 4401500 | 24171411.2 |        |
| 4401833 | Nxera Pharma UK Limited                                                                              | 15/09/2022 | 4401833 | 22778038.4 |        |
| 4402064 | Novatex Italia S.p.A                                                                                 | 13/09/2022 | 4402064 | 22786436.0 |        |
| 4403906 | Contemporary Amperex Technology (Hong<br>Kong) Limited                                               | 29/03/2023 | 4403906 | 23741964.3 |        |
| 4404806 | SEB S.A.                                                                                             | 23/09/2022 | 4404806 | 22786367.7 | French |
| 4405246 | Marcovich, Philippe<br>De Turckheim, Hugues                                                          | 19/09/2022 | 4405246 | 22789267.6 | French |
| 4405535 | CARBON CAPTURE BUILDINGS<br>GREENTECH                                                                | 20/09/2022 | 4405535 | 22797019.1 | French |
| 4405604 | FRESE A/S                                                                                            | 20/09/2022 | 4405604 | 22789551.3 |        |
| 4405691 | Itron, Inc.                                                                                          | 05/07/2022 | 4405691 | 22747539.9 |        |
| 4406467 | Yunjing Intelligence (Shenzhen) Co., Ltd.<br>Yunjing Intelligence Innovation (Shenzhen)<br>Co., Ltd. | 22/11/2022 | 4406467 | 22958962.7 |        |
| 4407149 | Safran Transmission Systems                                                                          | 22/01/2024 | 4407149 | 24153084.9 | French |
| 4407646 | ABB SCHWEIZ AG                                                                                       | 30/01/2023 | 4407646 | 23153851.3 |        |
| 4407865 | Renusol Europe GmbH                                                                                  | 15/01/2024 | 4407865 | 24151858.8 | German |
| 4408041 | Honor Device Co., Ltd.                                                                               | 17/08/2022 | 4408041 | 22902876.6 |        |
| 4408373 | I.M.A. Industria Macchine Automatiche<br>S.p.A.                                                      | 23/09/2022 | 4408373 | 22790032.1 |        |
| 4408662 | Saint-Gobain Sekurit France                                                                          | 12/09/2022 | 4408662 | 22768867.8 | German |
| 4409111 | Herrenknecht AG                                                                                      | 09/09/2022 | 4409111 | 22789846.7 | German |
| 4409173 | Goglio S.p.A.                                                                                        | 16/09/2022 | 4409173 | 22786441.0 |        |

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| 4409925 | Snap Inc.                                                               | 28/09/2022 | 4409925 | 22797172.8 |        |
| 4410226 | Stryker European Operations Limited                                     | 02/02/2024 | 4410226 | 24155521.8 |        |
| 4410590 | AutoStore Technology AS                                                 | 15/02/2019 | 4410590 | 24183533.9 |        |
| 4411196 | Isiflo AS                                                               | 03/02/2023 | 4411196 | 23154910.6 |        |
| 4412246 | ALPS ALPINE CO., LTD.                                                   | 30/01/2024 | 4412246 | 24154741.3 |        |
| 4412879 | Robert Bosch GmbH                                                       | 18/08/2022 | 4412879 | 22768311.7 |        |
| 4413454 | Salesforce, Inc.                                                        | 03/10/2022 | 4413454 | 22794056.6 |        |
| 4414010 | Guangzhou Junlin Medical Technology Co., Ltd.                           | 09/08/2023 | 4414010 | 23190678.5 |        |
| 4414289 | SELIG FRANCE                                                            | 29/04/2021 | 4414289 | 24179190.4 | French |
| 4414312 | J. Schmalz GmbH                                                         | 26/01/2024 | 4414312 | 24154244.8 | German |
| 4414896 | GOOGLE LLC                                                              | 14/01/2021 | 4414896 | 24184116.2 |        |
| 4415959 | Bruderer AG                                                             | 08/12/2021 | 4415959 | 21839021.9 | German |
| 4416069 | Nágel, Tamás<br>Pájer, Tamás<br>Köszegi, Sándor Zsolt<br>Urgyan, György | 22/02/2022 | 4416069 | 22713725.4 |        |
| 4416833 | ATOP S.p.A.                                                             | 27/09/2022 | 4416833 | 22783516.2 |        |
| 4417024 | TOMRA Sorting GmbH                                                      | 12/10/2022 | 4417024 | 22801446.0 |        |
| 4417063 | Mizkan Co., Ltd.<br>Mizkan Holdings Co., Ltd.                           | 16/12/2020 | 4417063 | 24185795.2 |        |
| 4417269 | The Boeing Company                                                      | 30/01/2024 | 4417269 | 24154823.9 |        |
| 4417373 | Black & Decker, Inc.                                                    | 20/02/2023 | 4417373 | 23157622.4 |        |
| 4417476 | Wuhan Lotus Cars Co., Ltd.                                              | 09/01/2023 | 4417476 | 23742747.1 |        |
| 4418168 | GOOGLE LLC                                                              | 29/10/2018 | 4418168 | 24173246.0 |        |
| 4418591 | Nokia Technologies Oy                                                   | 09/01/2024 | 4418591 | 24150866.2 |        |
| 4418911 | Philip Morris Products S.A.                                             | 22/10/2021 | 4418911 | 21790057.0 |        |
| 4418973 | The Procter & Gamble Company                                            | 20/10/2022 | 4418973 | 22800550.0 |        |
| 4419303 | Springer Maschinenfabrik GmbH                                           | 13/10/2022 | 4419303 | 22801471.8 | German |
| 4419456 | Springer Maschinenfabrik GmbH                                           | 13/10/2022 | 4419456 | 22801469.2 | German |
| 4419463 | Husqvarna AB                                                            | 05/09/2022 | 4419463 | 22772529.8 |        |
| 4420244 | Northrop Grumman LITEF GmbH                                             | 15/09/2022 | 4420244 | 22782714.4 | German |
| 4420270 | Arqit Limited                                                           | 28/09/2022 | 4420270 | 22786399.0 |        |
| 4420453 | Huawei Technologies Co. Ltd.                                            | 03/11/2021 | 4420453 | 21962818.7 |        |
| 4420582 | X'Pole Precision Tools Inc.                                             | 22/02/2023 | 4420582 | 23158003.6 |        |
| 4420645 | Uniwersytet Zielonogórski                                               | 24/02/2023 | 4420645 | 23461522.7 |        |
| 4420769 | SPM - Schütte Precision Machines GmbH                                   | 19/02/2024 | 4420769 | 24158384.8 | German |
| 4420871 | HUTCHINSON S.r.l.                                                       | 21/02/2024 | 4420871 | 24158781.5 |        |
| 4420882 | Ricoh Company, Ltd.                                                     | 16/02/2024 | 4420882 | 24158085.1 |        |
| 4420895 | Fujian Secure Medical Technology Co. Ltd                                | 03/03/2023 | 4420895 | 23724158.3 |        |
| 4420992 | ShenZhen YUTO Packaging Technology Co., Ltd                             | 14/12/2023 | 4420992 | 23216831.0 |        |
| 4422482 | Koninklijke Philips N.V.                                                | 24/10/2022 | 4422482 | 22812461.6 |        |
| 4422501 | Lightlab Imaging, Inc.                                                  | 25/10/2022 | 4422501 | 22801640.8 |        |
| 4422987 | Green Innova S.r.l.                                                     | 24/10/2022 | 4422987 | 22809536.0 |        |
| 4423195 | Arxada AG                                                               | 13/12/2022 | 4423195 | 22838656.1 |        |
| 4423202 | Bosch Car Multimedia Portugal, S.A.<br>Universidade do Minho            | 21/01/2022 | 4423202 | 22709013.1 |        |
| 4423430 | Signify Holding B.V.                                                    | 24/10/2022 | 4423430 | 22803315.5 |        |
| 4423472 | Blum-Novotest GmbH                                                      | 26/10/2022 | 4423472 | 22812496.2 | German |
| 4423762 | Fresenius Vial SAS                                                      | 24/10/2022 | 4423762 | 22809041.1 |        |
| 4423820 | Lumileds LLC                                                            | 26/10/2022 | 4423820 | 22818518.7 |        |
| 4424129 | Innovation-Farm Edtbauer OG                                             | 22/02/2024 | 4424129 | 24159115.5 | German |
| 4424222 | Husqvarna AB                                                            | 28/02/2023 | 4424222 | 23159175.1 |        |
| 4424600 | Rockwell Collins, Inc.                                                  | 01/03/2024 | 4424600 | 24160844.7 |        |
| 4425099 | Anhui NIO Autonomous Driving Technology Co., Ltd.                       | 19/12/2023 | 4425099 | 23218307.9 |        |
| 4425134 | Produal Oy                                                              | 24/01/2024 | 4425134 | 24153571.5 |        |
| 4425660 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                      | 26/01/2024 | 4425660 | 24154196.0 |        |
| 4425882 | New H3C Technologies Co., Ltd.                                          | 16/08/2022 | 4425882 | 22955258.3 |        |
| 4426459 | MERLIN Technology GmbH                                                  | 03/11/2022 | 4426459 | 22814308.7 | German |

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| 4426559 | Sandon Global Engraving Technology Limited                                  | 25/10/2022 | 4426559 | 22809081.7 |        |
| 4426622 | Illinois Tool Works Inc.                                                    | 07/11/2022 | 4426622 | 22822751.8 |        |
| 4426887 | IP Assets LLC                                                               | 03/11/2022 | 4426887 | 22889551.2 |        |
|         | Freeman, Duden                                                              |            |         |            |        |
| 4427509 | Telefonaktiebolaget LM Ericsson (publ)                                      | 01/11/2022 | 4427509 | 22802287.7 |        |
| 4427676 | Fundación Tecnalía Research and Innovation                                  | 09/03/2023 | 4427676 | 23382225.3 |        |
| 4427886 | Husqvarna AB                                                                | 06/03/2023 | 4427886 | 23160206.1 |        |
| 4428043 | ArianeGroup GmbH                                                            | 07/03/2023 | 4428043 | 23160381.2 | German |
| 4428311 | Nobili, Fabrizio                                                            | 06/03/2023 | 4428311 | 23160285.5 |        |
| 4428331 | Tip Top Fenster GmbH                                                        | 09/03/2023 | 4428331 | 23160988.4 | German |
| 4429556 | Carl Zeiss Meditec AG                                                       | 08/11/2022 | 4429556 | 22814359.0 | German |
| 4429933 | Wonderland Switzerland AG                                                   | 11/11/2022 | 4429933 | 22818620.1 |        |
| 4429942 | SRC GROUP AS                                                                | 08/11/2021 | 4429942 | 21810742.3 |        |
| 4430030 | Aquafil S.p.A.                                                              | 10/11/2022 | 4430030 | 22806001.8 |        |
| 4430343 | BDR Thermea Group B.V.                                                      | 07/11/2022 | 4430343 | 22813554.7 |        |
| 4430599 | Genesys Cloud Services, Inc.                                                | 08/11/2022 | 4430599 | 22826730.8 |        |
| 4430601 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.        | 09/11/2022 | 4430601 | 22801503.8 |        |
| 4430791 | QUALCOMM INCORPORATED                                                       | 31/10/2022 | 4430791 | 22817857.0 |        |
| 4430816 | GlobalM SA                                                                  | 07/11/2022 | 4430816 | 22814320.2 |        |
| 4431311 | Sumitomo Rubber Industries, Ltd.                                            | 07/03/2024 | 4431311 | 24162159.8 |        |
| 4432389 | LG Energy Solution, Ltd.                                                    | 05/06/2023 | 4432389 | 23820064.6 |        |
| 4433101 | CAELIMP                                                                     | 17/11/2022 | 4433101 | 22818661.5 | French |
| 4433154 | BIOTRONIK SE & Co. KG                                                       | 10/11/2022 | 4433154 | 22821856.6 |        |
| 4433360 | SAFRAN AIRCRAFT ENGINES                                                     | 16/11/2022 | 4433360 | 22814136.2 | French |
| 4434119 | Strunk Connect Automated Solutions GmbH & Co. KG                            | 09/11/2022 | 4434119 | 22813603.2 | German |
| 4434124 | Strunk Connect Automated Solutions GmbH & Co. KG                            | 08/11/2022 | 4434124 | 22813294.0 | German |
| 4434394 | power concepts GmbH                                                         | 18/03/2024 | 4434394 | 24164079.6 | German |
| 4434642 | Yield Engineering Systems, Inc.                                             | 13/03/2024 | 4434642 | 24163350.2 |        |
| 4435166 | PEÇA ESSENCIAL - MAQUINAS DE COSTURA INDUSTRIAIS - SOCIEDADE UNIPESOAAL LDA | 31/01/2024 | 4435166 | 24155101.9 |        |
| 4435331 | ELICA S.p.A.                                                                | 21/03/2024 | 4435331 | 24165027.4 |        |
| 4435487 | Sick IVP AB                                                                 | 21/03/2023 | 4435487 | 23163222.5 |        |
| 4435762 | Uniwersytet Zielonogórski                                                   | 23/03/2023 | 4435762 | 23461538.3 |        |
| 4435984 | Eaton Intelligent Power Limited                                             | 07/03/2024 | 4435984 | 24161944.4 | French |
| 4436116 | NXP USA, Inc.                                                               | 24/03/2023 | 4436116 | 23305410.5 |        |
| 4436192 | Sonos, Inc.                                                                 | 16/07/2014 | 4436192 | 24187203.5 |        |
| 4436811 | Piaggio & C. S.P.A.                                                         | 24/11/2022 | 4436811 | 22829588.7 |        |
| 4437224 | SAFRAN                                                                      | 26/10/2022 | 4437224 | 22809140.1 | French |
|         | SAFRAN AIRCRAFT ENGINES                                                     |            |         |            |        |
|         | Safran Electrical & Power                                                   |            |         |            |        |
| 4437273 | Pfeiffer Fab Solutions GmbH                                                 | 13/04/2023 | 4437273 | 23720545.5 | German |
| 4437589 | Aledia                                                                      | 08/11/2022 | 4437589 | 22813318.7 | French |
| 4437632 | Siemens Gamesa Renewable Energy A/S                                         | 05/01/2023 | 4437632 | 23700034.4 |        |
| 4437906 | Göhler, Matthias                                                            | 15/02/2024 | 4437906 | 24157912.7 | German |
| 4438836 | Hermat-Metallwaren B. Porst GmbH                                            | 16/11/2023 | 4438836 | 23210394.5 | German |
| 4438919 | Robert Bosch GmbH                                                           | 27/10/2022 | 4438919 | 22814158.6 |        |
| 4438998 | Rheinmetall Landsysteme GmbH                                                | 11/03/2024 | 4438998 | 24162762.9 | German |
| 4439351 | Samsung Electronics Co., Ltd.                                               | 08/03/2024 | 4439351 | 24162433.7 |        |
| 4439582 | Shenzhen Mindray Bio-Medical Electronics Co., Ltd.                          | 26/04/2019 | 4439582 | 24180348.5 |        |
| 4440128 | Huawei Technologies Co. Ltd.                                                | 29/11/2022 | 4440128 | 22913965.4 |        |
| 4440761 | SMS group GmbH                                                              | 30/11/2022 | 4440761 | 22823438.1 | German |
| 4440811 | Acmi Beverage S.p.a.                                                        | 16/11/2022 | 4440811 | 22818321.6 |        |
| 4440962 | Primetals Technologies Austria GmbH                                         | 30/11/2022 | 4440962 | 22823458.9 | German |
| 4441397 | ZF Friedrichshafen AG                                                       | 30/11/2022 | 4441397 | 22823065.2 | German |
| 4441483 | Inficon GmbH                                                                | 31/10/2022 | 4441483 | 22812583.7 | German |

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| 4441769 | Universiteit Gent<br>IMEC vzw                                                                                                                                                           | 01/12/2022 | 4441769 | 22823533.9 |        |
| 4442228 | The Second Hospital of Tianjin Medical<br>University                                                                                                                                    | 31/10/2022 | 4442228 | 22897550.4 |        |
| 4442341 | Shenzhen Huamingjun Rubber Co., Ltd.                                                                                                                                                    | 11/12/2023 | 4442341 | 23215425.2 |        |
| 4442598 | YETI Coolers, LLC                                                                                                                                                                       | 30/04/2021 | 4442598 | 24171364.3 |        |
| 4443877 | LG Electronics, Inc.                                                                                                                                                                    | 26/06/2013 | 4443877 | 24172972.2 |        |
| 4444101 | Plant Meat Makers B.V.                                                                                                                                                                  | 09/12/2022 | 4444101 | 22835323.1 |        |
| 4444411 | Medtronic, Inc                                                                                                                                                                          | 06/12/2022 | 4444411 | 22850921.2 |        |
| 4444459 | BASF SE                                                                                                                                                                                 | 07/12/2022 | 4444459 | 22830823.5 |        |
| 4444562 | HELLA GMBH & CO. KGAA                                                                                                                                                                   | 22/02/2022 | 4444562 | 22707145.3 | German |
| 4444956 | Safe Metal                                                                                                                                                                              | 05/12/2022 | 4444956 | 22823600.6 | French |
| 4444971 | EVVA Sicherheitstechnologie GmbH                                                                                                                                                        | 23/11/2022 | 4444971 | 22813401.1 | German |
| 4445006 | SAFRAN AIRCRAFT ENGINES                                                                                                                                                                 | 06/12/2022 | 4445006 | 22840791.2 | French |
| 4445285 | Giesecke+Devrient Mobile Security<br>Germany GmbH                                                                                                                                       | 08/12/2022 | 4445285 | 22834840.5 | German |
| 4445665 | Samsung Electronics Co., Ltd.                                                                                                                                                           | 28/04/2023 | 4445665 | 23803737.8 |        |
| 4445685 | Fives Celes                                                                                                                                                                             | 07/12/2022 | 4445685 | 22830861.5 | French |
| 4445729 | Exel Industries                                                                                                                                                                         | 04/03/2024 | 4445729 | 24161192.0 | French |
| 4446010 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives<br>Université Grenoble Alpes<br>Centre National de la Recherche<br>Scientifique<br>Institut Polytechnique de Grenoble | 07/03/2024 | 4446010 | 24162092.1 | French |
| 4446165 | LG Electronics Inc.                                                                                                                                                                     | 25/01/2023 | 4446165 | 23913858.9 |        |
| 4447659 | Fenyösy, János                                                                                                                                                                          | 14/12/2022 | 4447659 | 22862322.9 |        |
| 4448548 | The United States of America, as<br>represented by The Secretary, Department<br>of Health and Human Services                                                                            | 12/12/2022 | 4448548 | 22847091.0 |        |
| 4449223 | Landis+Gyr Technology, Inc.                                                                                                                                                             | 16/12/2021 | 4449223 | 21844487.5 |        |
| 4449411 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                                                                  | 15/12/2021 | 4449411 | 21839483.1 |        |
| 4449448 | FRAMATOME                                                                                                                                                                               | 15/12/2022 | 4449448 | 22835432.0 | French |
| 4449455 | KORATZINOS, Michail                                                                                                                                                                     | 07/12/2022 | 4449455 | 22840292.1 |        |
| 4449509 | Lumileds LLC                                                                                                                                                                            | 16/11/2022 | 4449509 | 22834781.1 |        |
| 4449700 | Genesys Cloud Services, Inc.                                                                                                                                                            | 15/12/2022 | 4449700 | 22850803.2 |        |
| 4450366 | SICK AG                                                                                                                                                                                 | 08/03/2024 | 4450366 | 24162402.2 | German |
| 4450731 | SUREnergy GmbH                                                                                                                                                                          | 16/04/2024 | 4450731 | 24170544.1 | German |
| 4450741 | MASTERLAB S.R.L.                                                                                                                                                                        | 12/04/2024 | 4450741 | 24170099.6 |        |
| 4450795 | TPR CO., LTD.                                                                                                                                                                           | 16/11/2022 | 4450795 | 22928887.3 |        |
| 4451158 | BlackBerry Limited                                                                                                                                                                      | 17/04/2024 | 4451158 | 24170703.3 |        |
| 4451438 | Samsung SDI Co., Ltd.                                                                                                                                                                   | 24/01/2024 | 4451438 | 24153595.4 |        |
| 4452021 | Société des Produits Nestlé S.A.                                                                                                                                                        | 21/12/2022 | 4452021 | 22840736.7 |        |
| 4452123 | Ethicon, Inc.                                                                                                                                                                           | 09/11/2022 | 4452123 | 22809204.5 |        |
| 4452129 | Koninklijke Philips N.V.                                                                                                                                                                | 08/12/2022 | 4452129 | 22830870.6 |        |
| 4452439 | IFP Energies nouvelles                                                                                                                                                                  | 13/12/2022 | 4452439 | 22836134.1 | French |
| 4452463 | Heidelberg Materials AG                                                                                                                                                                 | 09/03/2023 | 4452463 | 23710333.8 |        |
| 4452877 | ORIGIN BY OCEAN                                                                                                                                                                         | 20/12/2022 | 4452877 | 22830571.0 |        |
| 4452880 | SAINT-GOBAIN ISOVER                                                                                                                                                                     | 20/12/2022 | 4452880 | 22847592.7 | French |
| 4453400 | Wärtsilä Finland Oy                                                                                                                                                                     | 21/12/2021 | 4453400 | 21843715.0 |        |
| 4453552 | F. Hoffmann-La Roche AG                                                                                                                                                                 | 21/12/2022 | 4453552 | 22840742.5 |        |
| 4453621 | CooperVision International Limited                                                                                                                                                      | 30/10/2023 | 4453621 | 23804742.7 |        |
| 4454239 | Telia Company AB                                                                                                                                                                        | 20/12/2022 | 4454239 | 22830880.5 |        |
| 4454319 | SICPA HOLDING SA                                                                                                                                                                        | 16/12/2022 | 4454319 | 22835822.2 |        |
| 4454517 | Coway Co., Ltd.                                                                                                                                                                         | 29/12/2022 | 4454517 | 22920840.0 |        |
| 4455186 | mitsubishi gas chemical<br>company, inc.                                                                                                                                                | 21/12/2022 | 4455186 | 22911261.0 |        |
| 4455519 | Hamilton Sundstrand Corporation                                                                                                                                                         | 29/04/2024 | 4455519 | 24173062.1 |        |
| 4456798 | Koninklijke Philips N.V.                                                                                                                                                                | 23/12/2022 | 4456798 | 22843835.4 |        |
| 4457429 | Caterpillar Inc.                                                                                                                                                                        | 05/12/2022 | 4457429 | 22847169.4 |        |

|         |                                                                                                                                                                              |            |         |            |        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4457455 | Mettler-Toledo (Changzhou) Precision Instruments Ltd.<br>Mettler Toledo (Changzhou) Measurement Technology Ltd.<br>Mettler-Toledo International Trading (Shanghai) Co., Ltd. | 27/12/2022 | 4457455 | 22862335.1 |        |
| 4458160 | Aasted ApS                                                                                                                                                                   | 04/05/2023 | 4458160 | 23171727.3 |        |
| 4458228 | Shenzhen DeOne Innovation Technology Co., Ltd                                                                                                                                | 24/05/2024 | 4458228 | 24178109.5 |        |
| 4458393 | Khan, Macksoud                                                                                                                                                               | 28/06/2023 | 4458393 | 23181984.8 |        |
| 4459170 | Axis AB                                                                                                                                                                      | 02/05/2023 | 4459170 | 23171100.3 |        |
| 4459282 | Zoetis Services LLC                                                                                                                                                          | 05/07/2012 | 4459282 | 24200176.6 |        |
| 4460023 | Honor Device Co., Ltd.                                                                                                                                                       | 10/04/2023 | 4460023 | 23844895.5 |        |
| 4461147 | IVG Compliance Limited<br>Shenzhen First Union Technology Co., Ltd.                                                                                                          | 19/03/2024 | 4461147 | 24164472.3 |        |
| 4461160 | King Slide Works Co., Ltd.<br>King Slide Technology Co., Ltd.                                                                                                                | 30/10/2023 | 4461160 | 23206636.5 |        |
| 4461517 | Leonardo S.p.a.                                                                                                                                                              | 08/05/2024 | 4461517 | 24174804.5 |        |
| 4463592 | De' Longhi Appliances S.r.l. Con Unico Socio                                                                                                                                 | 10/01/2023 | 4463592 | 23703113.3 |        |
| 4463958 | ZTE Corporation                                                                                                                                                              | 27/06/2022 | 4463958 | 22948232.8 |        |
| 4464345 | BAXTER INTERNATIONAL INC.<br>Vantive Health GmbH                                                                                                                             | 10/12/2021 | 4464345 | 24204651.4 |        |
| 4464861 | MASTERLAB S.R.L.                                                                                                                                                             | 10/05/2024 | 4464861 | 24175102.3 |        |
| 4466061 | Newronika S.p.A.                                                                                                                                                             | 18/01/2023 | 4466061 | 23701614.2 |        |
| 4466431 | Purple Line Limited                                                                                                                                                          | 19/01/2023 | 4466431 | 23702886.5 |        |
| 4467805 | General Electric Renovables España S.L.                                                                                                                                      | 26/05/2023 | 4467805 | 23382497.8 |        |
| 4468478 | LG Energy Solution, Ltd.                                                                                                                                                     | 17/11/2022 | 4468478 | 22924336.5 |        |
| 4468886 | Swedish Match North Europe AB                                                                                                                                                | 20/01/2023 | 4468886 | 23701444.4 |        |
| 4468919 | Donati S.p.A.                                                                                                                                                                | 11/01/2023 | 4468919 | 23700249.8 |        |
| 4469340 | Piaggio & C. SpA                                                                                                                                                             | 13/01/2023 | 4469340 | 23703643.9 |        |
| 4469694 | Safran Transmission Systems                                                                                                                                                  | 24/01/2023 | 4469694 | 23706399.5 | French |
| 4470165 | Restrata Solutions Limited                                                                                                                                                   | 27/01/2023 | 4470165 | 23708544.4 |        |
| 4470388 | Les Jardins de l'Orbrie                                                                                                                                                      | 24/04/2024 | 4470388 | 24172100.0 | French |
| 4470545 | Linio Biotech Ltd                                                                                                                                                            | 31/05/2023 | 4470545 | 23176265.9 |        |
| 4470718 | PROMOTION SPA                                                                                                                                                                | 29/05/2024 | 4470718 | 24178924.7 |        |
| 4471398 | PIAGGIO & C. S.P.A.                                                                                                                                                          | 21/05/2024 | 4471398 | 24176937.1 |        |
| 4471602 | Shenzhen Anke Baiteng Technology Co., Ltd                                                                                                                                    | 11/01/2024 | 4471602 | 24151293.8 |        |
| 4472105 | Thales                                                                                                                                                                       | 28/05/2024 | 4472105 | 24178564.1 | French |
| 4472776 | BlueCatBio GmbH                                                                                                                                                              | 02/02/2023 | 4472776 | 23703204.0 | German |
| 4473385 | Micron Technology, Inc.                                                                                                                                                      | 10/11/2022 | 4473385 | 22925194.7 |        |
| 4473392 | Xmos Ltd                                                                                                                                                                     | 25/01/2023 | 4473392 | 23701741.3 |        |
| 4473639 | Indigo Diabetes N.V.                                                                                                                                                         | 06/02/2023 | 4473639 | 23702841.0 |        |
| 4474044 | Universidad de Huelva<br>Atlantic Copper, S.L.U.<br>Consejo Superior De Investigaciones Científicas - CSIC                                                                   | 09/06/2023 | 4474044 | 23382572.8 |        |
| 4474728 | CGG Services SAS                                                                                                                                                             | 11/03/2022 | 4474728 | 24208190.9 |        |
| 4475715 | Berchiche, Samy                                                                                                                                                              | 09/02/2023 | 4475715 | 23707652.6 | French |
| 4476413 | Corradi S.r.l.                                                                                                                                                               | 07/02/2023 | 4476413 | 23702844.4 |        |
| 4476525 | F. Hoffmann-La Roche AG                                                                                                                                                      | 09/02/2023 | 4476525 | 23703456.6 |        |
| 4476741 | FEops NV                                                                                                                                                                     | 10/02/2023 | 4476741 | 23703498.8 |        |
| 4476806 | Safran Electrical & Power                                                                                                                                                    | 01/02/2023 | 4476806 | 23706419.1 | French |
| 4477165 | S.M.A.I.O                                                                                                                                                                    | 14/06/2024 | 4477165 | 24182324.4 | French |
| 4477404 | Kuo, Tse Huang                                                                                                                                                               | 15/06/2023 | 4477404 | 23179495.9 |        |
| 4478444 | Hithium Tech HK Limited                                                                                                                                                      | 22/05/2024 | 4478444 | 24177442.1 |        |
| 4478691 | Cogelec                                                                                                                                                                      | 22/05/2024 | 4478691 | 24177421.5 | French |
| 4478854 | Staubli Faverges                                                                                                                                                             | 11/06/2024 | 4478854 | 24181324.5 | French |
| 4479294 | HUBER, Georg                                                                                                                                                                 | 16/02/2023 | 4479294 | 23705409.3 | German |
| 4479295 | Bayerische Motoren Werke Aktiengesellschaft                                                                                                                                  | 19/01/2023 | 4479295 | 23701639.9 | German |

|         |                                                                                                                 |            |         |            |        |
|---------|-----------------------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4479447 | BASF SE                                                                                                         | 06/02/2023 | 4479447 | 23702834.5 | German |
| 4479585 | Polyacht                                                                                                        | 17/02/2023 | 4479585 | 23707497.6 | French |
| 4479675 | Cavagna Group S.p.a.                                                                                            | 17/02/2023 | 4479675 | 23711546.4 |        |
| 4479676 | Cavagna Group S.p.a.                                                                                            | 17/02/2023 | 4479676 | 23711547.2 |        |
| 4479677 | Cavagna Group S.p.a.                                                                                            | 17/02/2023 | 4479677 | 23711548.0 |        |
| 4480750 | XKuub B.V.                                                                                                      | 20/06/2023 | 4480750 | 23180442.8 | German |
| 4481810 | Rockwell Collins, Inc.                                                                                          | 14/06/2024 | 4481810 | 24182396.2 |        |
| 4484494 | Danfoss A/S                                                                                                     | 29/06/2023 | 4484494 | 23182389.9 |        |
| 4484833 | IMI Hydronic Engineering International SA                                                                       | 27/06/2023 | 4484833 | 23181736.2 |        |
| 4484906 | MULTIPOND Wägetechnik GmbH                                                                                      | 25/06/2024 | 4484906 | 24184507.2 | German |
| 4487085 | Saudi Arabian Oil Company                                                                                       | 07/02/2023 | 4487085 | 23709521.1 |        |
| 4487288 | Koninklijke Philips N.V.                                                                                        | 06/02/2024 | 4487288 | 24703957.1 |        |
| 4487803 | Stryker European Operations Limited                                                                             | 04/07/2023 | 4487803 | 23183372.4 |        |
| 4487897 | Gaplast GmbH                                                                                                    | 09/04/2024 | 4487897 | 24169212.8 | German |
| 4488833 | STMicroelectronics International N.V.                                                                           | 03/07/2024 | 4488833 | 24186150.9 | French |
| 4488961 | Volvo Car Corporation                                                                                           | 06/07/2023 | 4488961 | 23183951.5 |        |
| 4489622 | Société des Produits Nestlé S.A.                                                                                | 07/03/2023 | 4489622 | 23710296.7 |        |
| 4489956 | Covestro Deutschland AG                                                                                         | 01/03/2023 | 4489956 | 23707108.9 | German |
| 4490105 | Chevron U.S.A. Inc.                                                                                             | 15/02/2023 | 4490105 | 23707496.8 |        |
| 4493630 | SHPP Global Technologies B.V.                                                                                   | 11/04/2023 | 4493630 | 23722667.5 |        |
| 4493836 | BPW Bergische Achsen<br>Kommanditgesellschaft                                                                   | 17/02/2023 | 4493836 | 23708706.9 | German |
| 4493983 | Ricoh Company, Ltd.                                                                                             | 02/03/2023 | 4493983 | 23711565.4 |        |
| 4494002 | Microsoft Technology Licensing, LLC                                                                             | 23/12/2022 | 4494002 | 22854571.1 |        |
| 4494984 | Morelli, Angelo                                                                                                 | 04/07/2024 | 4494984 | 24186602.9 |        |
| 4496013 | Samsung Electronics Co., Ltd.                                                                                   | 28/12/2023 | 4496013 | 23220473.5 |        |
| 4496291 | Siemens Aktiengesellschaft                                                                                      | 17/07/2023 | 4496291 | 23185841.6 | German |
| 4497573 | Quantica GmbH                                                                                                   | 06/11/2023 | 4497573 | 23208006.9 |        |
| 4498439 | SAMSUNG ELECTRONICS CO., LTD.                                                                                   | 23/07/2024 | 4498439 | 24190356.6 |        |
| 4498865 | Maximum SAS<br>Bernoud, Armand<br>Guignard de la Bigne, Romée<br>De Gaulle, Basile                              | 23/03/2023 | 4498865 | 23714518.0 | French |
| 4499471 | Jaguar Land Rover Limited                                                                                       | 22/03/2023 | 4499471 | 23714663.4 |        |
| 4499915 | Occzeno AB                                                                                                      | 28/03/2023 | 4499915 | 23715826.6 |        |
| 4500078 | Signify Holding B.V.                                                                                            | 23/03/2023 | 4500078 | 23712561.2 |        |
| 4501473 | Alps Alpine Co., Ltd.                                                                                           | 24/07/2024 | 4501473 | 24190668.4 |        |
| 4504393 | CASALE SA                                                                                                       | 29/03/2023 | 4504393 | 23717056.8 |        |
| 4505020 | CONSTRUIRE                                                                                                      | 04/04/2023 | 4505020 | 23717137.6 | French |
| 4506054 | Gema Switzerland GmbH                                                                                           | 08/07/2024 | 4506054 | 24187131.8 | German |
| 4506153 | Carl Freudenberg KG                                                                                             | 07/08/2023 | 4506153 | 23189967.5 |        |
| 4506289 | Otis Elevator Company                                                                                           | 17/12/2020 | 4506289 | 24208982.9 |        |
| 4506890 | Universitatea Din Craiova                                                                                       | 13/06/2024 | 4506890 | 24465532.0 |        |
| 4508325 | Siemens Gamesa Renewable Energy<br>Innovation & Technology S.L.                                                 | 31/05/2023 | 4508325 | 23730401.9 |        |
| 4511406 | Politecnico di Milano                                                                                           | 09/03/2023 | 4511406 | 23709235.8 |        |
| 4511646 | The University of the Basque Country<br>LUXEMBOURG INSTITUTE OF<br>SCIENCE AND TECHNOLOGY (LIST)                | 20/04/2023 | 4511646 | 23720614.9 |        |
| 4511847 | Asociación Duchenne Parent Project<br>España<br>Fundació Eurecat<br>Hospital Sant Joan de Deu<br>Rigshospitalet | 19/04/2023 | 4511847 | 23720281.7 |        |
| 4512341 | GE Precision Healthcare LLC                                                                                     | 07/08/2024 | 4512341 | 24193298.7 |        |
| 4512700 | Hyundai Mobis Co., Ltd.                                                                                         | 23/01/2024 | 4512700 | 24153414.8 |        |
| 4515897 | Telefonaktiebolaget LM Ericsson (publ)                                                                          | 28/04/2022 | 4515897 | 22726422.3 |        |
| 4516437 | Krebs & Riedel Schleifscheibenfabrik<br>GmbH & Co. KG                                                           | 04/09/2023 | 4516437 | 23195186.4 | German |
| 4517807 | Hitachi Energy Ltd                                                                                              | 31/08/2023 | 4517807 | 23194697.1 |        |

|         |                                                                                           |            |         |            |        |
|---------|-------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4520415 | L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE | 26/07/2024 | 4520415 | 24191200.5 | French |
| 4522584 | Johnson Matthey Davy Technologies Limited                                                 | 12/04/2023 | 4522584 | 23719863.5 |        |
| 4522762 | Medizinische Hochschule Hannover                                                          | 10/05/2023 | 4522762 | 23726037.7 |        |
| 4523571 | Sino International Group Ltd.                                                             | 16/07/2024 | 4523571 | 24188743.9 | German |
| 4524260 | DNAe Diagnostics Limited                                                                  | 07/05/2020 | 4524260 | 25150312.4 |        |
| 4524526 | Utilcell, s.r.o.                                                                          | 14/09/2023 | 4524526 | 23197332.2 |        |
| 4530156 | The Ondrasik Family Trust Dated 11/3/1999                                                 | 27/09/2024 | 4530156 | 24203313.2 |        |
| 4530505 | Talleres Zitron, S.A.                                                                     | 29/09/2023 | 4530505 | 23382993.6 |        |
| 4530898 | New H3C Technologies Co., Ltd.                                                            | 05/09/2024 | 4530898 | 24198700.7 |        |
| 4532972 | Signify Holding B.V.                                                                      | 24/05/2023 | 4532972 | 23728366.8 |        |
| 4533544 | Ideaded, S.L.                                                                             | 08/02/2024 | 4533544 | 24703389.7 |        |
| 4533840 | Telefonaktiebolaget LM Ericsson (publ)                                                    | 17/05/2023 | 4533840 | 23727119.2 |        |
| 4533847 | Elisa Oyj                                                                                 | 23/05/2023 | 4533847 | 23730543.8 |        |
| 4538424 | OÜ Stargate Hydrogen Solutions                                                            | 09/10/2023 | 4538424 | 23202478.6 |        |
| 4540331 | Dow Silicones Corporation                                                                 | 11/07/2022 | 4540331 | 22758418.2 |        |
| 4543319 | Cilag GmbH International                                                                  | 19/06/2024 | 4543319 | 24736101.7 |        |
| 4543793 | KONE Corporation                                                                          | 21/06/2022 | 4543793 | 22741431.5 |        |
| 4545059 | Guangzhou Candear Packing Products Co., Ltd                                               | 01/12/2023 | 4545059 | 23213606.9 |        |
| 4546953 | Univerzita Pardubice                                                                      | 23/10/2023 | 4546953 | 23205106.0 |        |
| 4548726 | Nanyang Technological University Nanofilm Technologies International Limited              | 03/11/2023 | 4548726 | 23798961.1 |        |
| 4550381 | Xiamen Hongfa Automotive Electronics Co., Ltd.                                            | 30/10/2024 | 4550381 | 24209966.1 |        |
| 4550986 | Industry-Academic Cooperation Foundation Gyeongsang National University                   | 21/08/2024 | 4550986 | 24195527.7 |        |
| 4552525 | PiNkey AG                                                                                 | 29/05/2024 | 4552525 | 24178932.0 | German |
| 4553316 | Selivanav, Pavel                                                                          | 24/07/2024 | 4553316 | 24190625.4 |        |
| 4554439 | TESA SE                                                                                   | 08/06/2023 | 4554439 | 23732451.2 | German |
| 4555035 | Wacker Chemie AG                                                                          | 11/07/2022 | 4555035 | 22750695.3 | German |
| 4555322 | PIXELGEN TECHNOLOGIES AB                                                                  | 20/09/2023 | 4555322 | 23782299.4 |        |
| 4557755 | Axis AB                                                                                   | 16/11/2023 | 4557755 | 23210256.6 |        |
| 4568593 | Brainlab SE                                                                               | 05/04/2024 | 4568593 | 24715640.9 |        |
| 4573833 | Dish Wireless L.L.C.                                                                      | 16/08/2023 | 4573833 | 23768057.4 |        |
| 4574384 | HuiHong (Nantong) Safety Products Co., Ltd.                                               | 18/12/2023 | 4574384 | 23217478.9 |        |
| 4574890 | Green Elephant Biotech GmbH Hille, Johannes                                               | 22/12/2023 | 4574890 | 23220150.9 | German |
| 4583813 | OCCLUTECH GmbH                                                                            | 29/12/2023 | 4583813 | 23838171.9 |        |
| 4584481 | AVL List GmbH                                                                             | 04/06/2024 | 4584481 | 24733070.7 | German |
| 4586898 | Sonion Nederland B.V.                                                                     | 10/04/2024 | 4586898 | 24716195.3 |        |
| 4588180 | QUALCOMM Incorporated                                                                     | 22/08/2023 | 4588180 | 23769083.9 |        |
| 4594391 | Wacker Chemie AG                                                                          | 08/03/2023 | 4594391 | 23710318.9 | German |
| 4595233 | Airbus Defence and Space SAS                                                              | 13/11/2024 | 4595233 | 24809574.7 | French |
| 4600603 | OPTOPOL Technology Spolka z ograniczona Odpowiedzialnoscia                                | 06/02/2024 | 4600603 | 24461523.3 |        |

### Grants Published in EPO Bulletin No. 44/25, dated 2025-10-29

|         |                                           |            |         |            |        |
|---------|-------------------------------------------|------------|---------|------------|--------|
| 2064395 | Simpson Strong-Tie International, Inc.    | 21/09/2007 | 2064395 | 07804359.3 |        |
| 2284559 | ABB S.p.A.                                | 30/07/2010 | 2284559 | 10171500.1 |        |
| 2593499 | U.B.Q. Materials Ltd.                     | 14/07/2011 | 2593499 | 11752645.9 |        |
| 2674819 | ETA SA Manufacture Horlogère Suisse       | 20/03/2013 | 2674819 | 13160098.3 | French |
| 2720927 | Ground Transportation Systems Canada Inc. | 12/06/2012 | 2720927 | 12800734.1 |        |
| 2724391 | SeeScan, Inc.                             | 25/06/2012 | 2724391 | 12746406.3 |        |
| 2785988 | BASF Mobile Emissions Catalysts LLC       | 30/11/2012 | 2785988 | 12853332.0 |        |
| 2831868 | K.A. Advertising Solutions Ltd.           | 21/03/2013 | 2831868 | 13718408.1 |        |



|         |                                                         |            |         |            |        |
|---------|---------------------------------------------------------|------------|---------|------------|--------|
| 2889703 | TGM Developpement SA                                    | 05/12/2014 | 2889703 | 14196656.4 | French |
| 2893318 | Safran Aircraft Engines                                 | 30/08/2013 | 2893318 | 13766601.2 | French |
|         | Safran Helicopter Engines                               |            |         |            |        |
|         | Centre National de la Recherche Scientifique (C.N.R.S.) |            |         |            |        |
|         | Ecole Normale Supérieure Paris-Saclay                   |            |         |            |        |
| 2901771 | ORANGE                                                  | 25/09/2013 | 2901771 | 13779296.6 | French |
| 2966167 | Takii & Company Limited                                 | 04/03/2014 | 2966167 | 14760422.7 |        |
| 2972409 | Digital Signal Corporation                              | 12/03/2014 | 2972409 | 14769313.9 |        |
| 2976763 | Cognisens Inc.                                          | 18/03/2014 | 2976763 | 14767813.0 |        |
| 3008110 | BASF SE                                                 | 11/06/2014 | 3008110 | 14730138.6 | German |
| 3052270 | Saint-Gobain Ceramics & Plastics, Inc.                  | 30/09/2014 | 3052270 | 14847751.6 |        |
| 3091968 | Kenvue Brands LLC                                       | 23/12/2014 | 3091968 | 14830771.3 |        |
| 3092029 | Potrero Medical, Inc.                                   | 07/01/2015 | 3092029 | 15735610.6 |        |
| 3103523 | The Procter & Gamble Company                            | 12/06/2015 | 3103523 | 15171784.0 |        |
| 3107375 | Sylvan America, Inc.                                    | 20/02/2015 | 3107375 | 15751489.4 |        |
| 3132810 | Seoul National University R&DB Foundation               | 17/04/2015 | 3132810 | 15779986.7 |        |
|         | BS Research Co. Ltd.                                    |            |         |            |        |
| 3140683 | 3M Innovative Properties Company                        | 30/04/2015 | 3140683 | 15724410.4 |        |
| 3164465 | Anellotech, Inc.                                        | 01/07/2015 | 3164465 | 15745293.9 |        |
| 3164466 | Anellotech, Inc.                                        | 01/07/2015 | 3164466 | 15750843.3 |        |
| 3182186 | Hauff-Technik GRIDCOM GmbH                              | 01/12/2016 | 3182186 | 16020476.4 | German |
| 3182468 | JingAo Solar Co., Ltd.                                  | 16/12/2016 | 3182468 | 16204642.9 |        |
| 3188790 | Atacor Medical, Inc.                                    | 04/09/2015 | 3188790 | 15838014.7 |        |
| 3193633 | 915 Labs, LLC                                           | 17/09/2015 | 3193633 | 15772145.7 |        |
| 3198627 | Micromass UK Limited                                    | 25/09/2015 | 3198627 | 15774949.0 |        |
| 3201453 | Volvo Truck Corporation                                 | 29/09/2014 | 3201453 | 14903271.6 |        |
| 3204806 | Optotune Switzerland AG                                 | 18/09/2015 | 3204806 | 15778884.5 |        |
| 3213173 | Apple Inc.                                              | 27/10/2015 | 3213173 | 15854782.8 |        |
| 3218547 | Dongre Laboratory Services, Inc                         | 12/11/2015 | 3218547 | 15858510.9 |        |
| 3224868 | Qualcomm Incorporated                                   | 30/09/2015 | 3224868 | 15781512.7 |        |
| 3235242 | Samsung Electronics Co., Ltd.                           | 14/12/2015 | 3235242 | 15870266.2 |        |
| 3236992 | Natura & Co UK Holdings Limited                         | 03/09/2015 | 3236992 | 15868680.8 |        |
| 3251695 | MEDRx Co., Ltd.                                         | 29/01/2016 | 3251695 | 16743599.9 |        |
| 3253395 | Multigerm UK Enterprises Ltd.                           | 05/02/2016 | 3253395 | 16703837.1 |        |
| 3253824 | Lawrence Livermore National Security, LLC               | 02/02/2016 | 3253824 | 16747112.7 |        |
|         | The Texas A&M University System                         |            |         |            |        |
| 3258950 | Amylonix AB                                             | 22/02/2016 | 3258950 | 16706831.1 |        |
| 3262952 | Stam Agro nv                                            | 30/06/2016 | 3262952 | 16177367.6 |        |
| 3265880 | Abramov, Andrey                                         | 27/04/2016 | 3265880 | 16759660.0 |        |
| 3275448 | Kyowa Kirin Co., Ltd.                                   | 24/03/2016 | 3275448 | 16768915.7 |        |
| 3283128 | Rochester Institute of Technology                       | 26/02/2016 | 3283128 | 16756488.9 |        |
| 3286678 | Biomérieux                                              | 21/04/2016 | 3286678 | 16726914.1 | French |
| 3286850 | Skylark Wireless, LLC                                   | 23/04/2016 | 3286850 | 16784049.5 |        |
| 3288626 | Reflex Medical Inc.                                     | 27/04/2016 | 3288626 | 16787070.8 |        |
| 3288983 | Biological E Limited                                    | 25/04/2016 | 3288983 | 16730507.7 |        |
| 3289368 | Raritan Americas, Inc.                                  | 27/04/2016 | 3289368 | 16787057.5 |        |
| 3293360 | RTX Corporation                                         | 12/09/2017 | 3293360 | 17190654.8 |        |
| 3296635 | RTX Corporation                                         | 04/09/2017 | 3296635 | 17189238.3 |        |
| 3299153 | Mitsubishi Electric Corporation                         | 18/02/2016 | 3299153 | 16796138.2 |        |
| 3301889 | Beijing Xiaomi Mobile Software Co., Ltd.                | 26/09/2017 | 3301889 | 17193035.7 |        |
| 3302634 | Sanofi-Aventis Deutschland GmbH                         | 02/06/2016 | 3302634 | 16726332.6 |        |
| 3307070 | Emory University                                        | 09/06/2016 | 3307070 | 16808268.3 |        |
| 3310420 | Fisher & Paykel Healthcare Limited                      | 16/06/2016 | 3310420 | 16812023.6 |        |
| 3314662 | Tahoe Research, Ltd.                                    | 26/06/2015 | 3314662 | 15896540.0 |        |
| 3317462 | Hallberg, Per                                           | 01/07/2016 | 3317462 | 16821738.8 |        |
| 3323909 | Sumitomo Electric Industries, Ltd.                      | 06/07/2016 | 3323909 | 16824354.1 |        |
|         | Mimsi Materials AB                                      |            |         |            |        |
| 3331464 | Boston Scientific Scimed, Inc.                          | 03/08/2016 | 3331464 | 16751757.2 |        |

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| 3334362 | Venner Medical Technologies SA<br>Mariyaselvam, Maryanne<br>Young, Peter Jeffrey                            | 16/08/2016 | 3334362 | 16774699.9 |        |
| 3341148 | Arizona Board of Regents on behalf of<br>Arizona State University                                           | 26/08/2016 | 3341148 | 16840188.3 |        |
| 3341174 | Hollister Incorporated                                                                                      | 10/08/2016 | 3341174 | 16759916.6 |        |
| 3344116 | Photono Oy                                                                                                  | 03/09/2015 | 3344116 | 15763957.6 |        |
| 3348022 | BARCO N.V.                                                                                                  | 09/09/2016 | 3348022 | 16774461.4 |        |
| 3350349 | Siemens Healthcare Diagnostics Inc.                                                                         | 16/09/2016 | 3350349 | 16847412.0 |        |
| 3350706 | Microsoft Technology Licensing, LLC                                                                         | 13/09/2016 | 3350706 | 16775374.8 |        |
| 3350751 | Avery Dennison Retail Information<br>Services LLC                                                           | 15/09/2016 | 3350751 | 16770428.7 |        |
| 3352720 | Umano Medical Inc.                                                                                          | 23/09/2016 | 3352720 | 16848252.9 |        |
| 3353611 | Baker Hughes Holdings LLC                                                                                   | 12/09/2016 | 3353611 | 16847100.1 |        |
| 3354840 | Weinor GmbH & Co. KG                                                                                        | 30/01/2017 | 3354840 | 17000150.7 | German |
| 3356803 | ArcelorMittal                                                                                               | 30/09/2016 | 3356803 | 16791440.7 |        |
| 3357046 | Nokia Technologies Oy                                                                                       | 29/09/2015 | 3357046 | 15905275.2 |        |
| 3357264 | Hirschmann Automation and Control<br>GmbH                                                                   | 15/09/2016 | 3357264 | 16778882.7 |        |
| 3367387 | Digital Surgery Ltd                                                                                         | 21/12/2017 | 3367387 | 17209562.2 |        |
| 3371645 | Essilor International                                                                                       | 06/11/2015 | 3371645 | 15813903.0 |        |
| 3373803 | Respiratory Motion, Inc.                                                                                    | 15/12/2016 | 3373803 | 16876683.0 |        |
| 3373982 | Nuvinair, LLC                                                                                               | 09/11/2016 | 3373982 | 16869060.0 |        |
| 3375347 | HOYA Corporation                                                                                            | 07/11/2016 | 3375347 | 16864165.2 |        |
| 3376100 | SITECO GmbH                                                                                                 | 16/03/2018 | 3376100 | 18162323.2 | German |
| 3377653 | Cygnus Biosciences (Beijing) Co., Ltd.                                                                      | 16/11/2016 | 3377653 | 16865757.5 |        |
| 3387266 | Log Max AB                                                                                                  | 09/12/2016 | 3387266 | 16873470.5 |        |
| 3390490 | SHPP Global Technologies B.V.                                                                               | 21/11/2016 | 3390490 | 16810164.0 |        |
| 3390921 | Friedrich Air Conditioning, LLC                                                                             | 29/11/2016 | 3390921 | 16876358.9 |        |
| 3394109 | GlaxoSmithKline Biologicals SA                                                                              | 21/12/2016 | 3394109 | 16834117.0 |        |
| 3394918 | Johnson IP Holding, LLC                                                                                     | 21/12/2016 | 3394918 | 16823507.5 |        |
| 3397186 | Koninklijke Philips N.V.                                                                                    | 19/12/2016 | 3397186 | 16823347.6 |        |
| 3399261 | QINGDAO HAIER JOINT STOCK CO.,<br>LTD.                                                                      | 17/06/2016 | 3399261 | 16880447.4 |        |
| 3400285 | Native Microbials, Inc.                                                                                     | 06/01/2017 | 3400285 | 17736448.6 |        |
| 3406786 | LG Electronics Inc.                                                                                         | 04/01/2017 | 3406786 | 17741592.4 |        |
| 3407301 | Hangzhou Hikvision Digital Technology<br>Co., Ltd.                                                          | 06/05/2016 | 3407301 | 16885926.2 |        |
| 3408084 | W. L. Gore & Associates, Inc.<br>Aspen Aerogels Inc.                                                        | 26/01/2017 | 3408084 | 17707998.5 |        |
| 3409105 | Sekisui Chemical Co., Ltd.                                                                                  | 15/06/2017 | 3409105 | 17813402.9 |        |
| 3417313 | Allstate Insurance Company                                                                                  | 15/02/2017 | 3417313 | 17753736.2 |        |
| 3417496 | Daramic, LLC                                                                                                | 17/02/2017 | 3417496 | 17753939.2 |        |
| 3418850 | Hamilton Sundstrand Corporation                                                                             | 21/06/2018 | 3418850 | 18179066.8 |        |
| 3419492 | 3M Innovative Properties Company                                                                            | 16/02/2017 | 3419492 | 17709228.5 |        |
| 3420270 | Magic Leap, Inc.                                                                                            | 23/02/2017 | 3420270 | 17757228.6 |        |
| 3420778 | Huawei Technologies Co., Ltd.                                                                               | 14/03/2017 | 3420778 | 17765825.9 |        |
| 3424667 | Orac Holding NV                                                                                             | 02/03/2012 | 3424667 | 18185623.8 |        |
| 3429576 | Xeniopro GmbH                                                                                               | 17/03/2017 | 3429576 | 17710758.8 |        |
| 3430759 | Qualcomm Incorporated                                                                                       | 03/02/2017 | 3430759 | 17706348.4 |        |
| 3431956 | Microjet Technology Co., Ltd                                                                                | 19/06/2018 | 3431956 | 18178592.4 |        |
| 3438635 | Nidek Co., Ltd.                                                                                             | 30/07/2018 | 3438635 | 18186252.5 |        |
| 3439283 | Nikon Corporation                                                                                           | 29/03/2017 | 3439283 | 17775257.3 |        |
| 3442325 | Nunhems B.V.                                                                                                | 12/04/2017 | 3442325 | 17717675.7 |        |
| 3442994 | Pioneer Hi-Bred International, Inc.                                                                         | 12/04/2017 | 3442994 | 17783037.9 |        |
| 3443858 | NIKE Innovate C.V.                                                                                          | 22/01/2015 | 3443858 | 18190349.3 |        |
| 3449055 | Stowe Woodward Licensco, LLC                                                                                | 26/04/2017 | 3449055 | 17790300.2 |        |
| 3453181 | Sharp Kabushiki Kaisha                                                                                      | 25/04/2017 | 3453181 | 17792715.9 |        |
| 3453894 | RTX Corporation                                                                                             | 06/09/2018 | 3453894 | 18192897.9 |        |
| 3454145 | Sumitomo Electric Hardmetal Corp.<br>Sumitomo Electric Industries, Ltd.<br>Sumitomo Electric Tool Net, Inc. | 27/04/2017 | 3454145 | 17792735.7 |        |

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| 3454438 | Schneider Electric Industries SAS                                          | 11/06/2018 | 3454438 | 18176924.1 | French |
| 3454738 | Elbit Systems Ltd.                                                         | 08/05/2017 | 3454738 | 17795734.7 |        |
| 3455204 | Jubilant Epicore LLC                                                       | 08/05/2017 | 3455204 | 17737887.4 | German |
| 3455643 | Rosemount Inc.                                                             | 02/05/2017 | 3455643 | 17733198.0 |        |
| 3457561 | Lock GmbH                                                                  | 07/09/2018 | 3457561 | 18193118.9 |        |
| 3458588 | Voyager Therapeutics, Inc.                                                 | 18/05/2017 | 3458588 | 17800147.5 |        |
| 3458631 | The LYCRA Company UK Limited                                               | 15/05/2017 | 3458631 | 17725127.9 |        |
| 3461131 | Panasonic Intellectual Property Corporation of America                     | 10/05/2017 | 3461131 | 17799225.2 |        |
| 3461864 | Evonik Operations GmbH                                                     | 12/09/2018 | 3461864 | 18193954.7 | German |
| 3462912 | Firmenich SA                                                               | 24/05/2017 | 3462912 | 17733357.2 |        |
| 3462998 | Pepsico, Inc.                                                              | 25/05/2017 | 3462998 | 17807260.9 | German |
| 3463202 | Nanohive Medical LLC                                                       | 06/06/2017 | 3463202 | 17810838.7 |        |
| 3465017 | Electrolux Appliances Aktiebolag                                           | 27/05/2016 | 3465017 | 16727974.4 |        |
| 3465854 | HellermannTyton GmbH                                                       | 22/05/2017 | 3465854 | 17725938.9 |        |
| 3467026 | Valqua, Ltd.                                                               | 24/05/2017 | 3467026 | 17806485.3 |        |
| 3467599 | Rockwell Automation Technologies, Inc.                                     | 27/09/2018 | 3467599 | 18197146.6 |        |
| 3469413 | Microsoft Technology Licensing, LLC                                        | 07/06/2017 | 3469413 | 17731382.2 |        |
| 3470464 | Heraeus Epurio GmbH                                                        | 30/09/2011 | 3470464 | 18206281.0 |        |
| 3473006 | Google LLC                                                                 | 31/07/2017 | 3473006 | 17749098.4 |        |
| 3474862 | Microbial Research Management Health NV                                    | 22/06/2017 | 3474862 | 17732101.5 |        |
| 3476418 | Eurotrol B.V.                                                              | 30/10/2017 | 3476418 | 17199154.0 |        |
| 3477396 | Nube Print, S.L.                                                           | 30/03/2017 | 3477396 | 17903286.7 |        |
| 3480676 | Samsung Display Co., Ltd                                                   | 27/01/2016 | 3480676 | 18209663.6 |        |
| 3480742 | Imagination Technologies Limited                                           | 02/11/2018 | 3480742 | 18204175.6 |        |
| 3480807 | Samsung Display Co., Ltd.                                                  | 31/10/2018 | 3480807 | 18203635.0 |        |
| 3481619 | Hunter Douglas Industries B.V.                                             | 07/07/2017 | 3481619 | 17735169.9 |        |
| 3481963 | Genentech, Inc.                                                            | 10/07/2017 | 3481963 | 17743124.4 |        |
| 3484669 | Siemens Healthcare Diagnostics Inc.                                        | 27/06/2017 | 3484669 | 17828169.7 |        |
| 3485006 | Carbios                                                                    | 12/07/2017 | 3485006 | 17742984.2 |        |
| 3485007 | Carbios                                                                    | 12/07/2017 | 3485007 | 17742986.7 |        |
| 3488961 | F. Hoffmann-La Roche AG                                                    | 22/11/2018 | 3488961 | 18207874.1 |        |
| 3489957 | Accenture Global Solutions Limited                                         | 15/11/2018 | 3489957 | 18206424.6 |        |
| 3491337 | TomTom Navigation B.V.                                                     | 28/07/2017 | 3491337 | 17751052.6 |        |
| 3491877 | Qualcomm Incorporated                                                      | 14/07/2017 | 3491877 | 17743205.1 |        |
| 3493788 | Ambah IP Limited                                                           | 27/07/2017 | 3493788 | 17757569.3 |        |
| 3497803 | Telefonaktiebolaget LM Ericsson (PUBL)                                     | 11/08/2017 | 3497803 | 17771866.5 |        |
| 3498884 | C. Uyemura & Co., Ltd.                                                     | 19/06/2017 | 3498884 | 17839065.4 |        |
| 3500649 | Current Lighting Solutions, LLC                                            | 15/09/2017 | 3500649 | 17844644.9 |        |
| 3502267 | F. Hoffmann-La Roche AG                                                    | 19/09/2013 | 3502267 | 18194260.8 |        |
| 3506224 | Honeywell International Inc.                                               | 31/08/2018 | 3506224 | 18191919.2 |        |
| 3508179 | Ostomycur AS                                                               | 15/06/2017 | 3508179 | 19157186.8 |        |
| 3509261 | NTT DOCOMO, Inc.                                                           | 30/08/2017 | 3509261 | 17846563.9 |        |
| 3509449 | RAI Strategic Holdings, Inc.                                               | 07/09/2017 | 3509449 | 17777969.1 |        |
| 3510511 | Nagravision Sàrl                                                           | 08/09/2017 | 3510511 | 17761535.8 |        |
| 3510578 | HERE Global B.V.                                                           | 25/08/2017 | 3510578 | 17777956.8 |        |
| 3512693 | Dukane IAS, LLC                                                            | 15/09/2017 | 3512693 | 17772831.8 |        |
| 3512741 | Stoneridge Electronics AB                                                  | 13/09/2017 | 3512741 | 17781212.0 |        |
| 3513005 | Koninklijke BAM Groep N.V.                                                 | 14/09/2017 | 3513005 | 17781570.1 |        |
| 3513149 | NTN Europe                                                                 | 12/09/2017 | 3513149 | 17784347.1 |        |
| 3515503 | The Regents of The University of Michigan Baylor College of Medicine       | 22/09/2017 | 3515503 | 17854002.7 | French |
| 3515973 | Zephyros Inc.                                                              | 19/09/2017 | 3515973 | 17777739.8 |        |
| 3519848 | Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik | 15/09/2017 | 3519848 | 17777193.8 | German |
| 3519898 | Siemens Healthineers AG                                                    | 29/09/2017 | 3519898 | 17784579.9 |        |
| 3520012 | ORANGE                                                                     | 29/09/2017 | 3520012 | 17793690.3 | French |
| 3522371 | Qorvo US, Inc.                                                             | 06/11/2018 | 3522371 | 18204547.6 |        |
| 3522949 | CareFusion 303, Inc.                                                       | 21/09/2017 | 3522949 | 17778121.8 |        |
| 3524842 | Kabushiki Kaisha F.C.C.                                                    | 08/08/2017 | 3524842 | 17858063.5 |        |

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| 3525253 | Samsung Display Co., Ltd                                  | 11/02/2019 | 3525253 | 19156553.0 |        |
| 3525526 | Sharp Kabushiki Kaisha                                    | 14/08/2017 | 3525526 | 17858074.2 |        |
| 3530690 | LG Chem, Ltd.                                             | 26/12/2017 | 3530690 | 17890665.7 |        |
| 3531688 | Orbotech Ltd.                                             | 22/02/2019 | 3531688 | 19158879.7 |        |
| 3534216 | Seiko Epson Corporation                                   | 27/02/2019 | 3534216 | 19159598.2 |        |
| 3536348 | Leibniz-Institut für Plasmaforschung und Technologie e.V. | 07/03/2018 | 3536348 | 18160567.6 | German |
| 3536710 | Boehringer Ingelheim International GmbH                   | 14/11/2012 | 3536710 | 19169065.0 |        |
| 3537926 | Colgate-Palmolive Company                                 | 13/12/2017 | 3537926 | 17825702.8 |        |
| 3538254 | Aveine                                                    | 16/02/2017 | 3538254 | 17713707.2 | French |
| 3538502 | IFP Energies nouvelles                                    | 06/11/2017 | 3538502 | 17800751.4 | French |
| 3538877 | Total Research & Technology Feluy                         |            |         |            |        |
| 3538877 | University of Southern California                         | 07/11/2017 | 3538877 | 17869786.8 |        |
| 3541592 | Alpla-Werke Alwin Lehner GMBH & Co.KG                     | 09/11/2017 | 3541592 | 17800801.7 | German |
| 3542015 | HUF Hülsbeck & Fürst GmbH & Co. KG                        | 05/10/2017 | 3542015 | 17780096.8 | German |
| 3546688 | LG Electronics Inc.                                       | 26/03/2019 | 3546688 | 19165316.1 |        |
| 3551254 | Sanofi                                                    | 05/12/2017 | 3551254 | 17829128.2 |        |
| 3551285 | Avive Solutions, Inc.                                     | 07/12/2017 | 3551285 | 17882166.6 |        |
| 3551462 | Hewlett-Packard Development Company, L.P.                 | 06/04/2017 | 3551462 | 17904582.8 |        |
| 3552250 | Everspin Technologies, Inc.                               | 05/12/2017 | 3552250 | 17825320.9 |        |
| 3552304 | MTS Systems Corporation                                   | 07/12/2017 | 3552304 | 17817634.3 |        |
| 3555493 | BREMBO S.p.A.                                             | 30/11/2017 | 3555493 | 17818623.5 |        |
| 3556547 | Usines Claas France S.A.S                                 | 06/02/2019 | 3556547 | 19155638.0 | German |
| 3557281 | Kabushiki Kaisha Toshiba                                  | 12/03/2019 | 3557281 | 19162160.6 |        |
|         | Toshiba Electronic Devices & Storage Corporation          |            |         |            |        |
| 3558153 | Olympus Winter & Ibe GmbH                                 | 15/12/2017 | 3558153 | 17825461.1 | German |
| 3560792 | Siemens Mobility GmbH                                     | 29/03/2019 | 3560792 | 19166128.9 | German |
| 3564984 | Thermo Fisher Scientific (Bremen) GmbH                    | 02/06/2017 | 3564984 | 19175643.6 |        |
| 3566176 | Interlink Electronics, Inc.                               | 03/01/2018 | 3566176 | 18735977.3 |        |
| 3570942 | SAFE Patentverwaltungs- und Verwertungs GmbH              | 16/01/2018 | 3570942 | 18701006.1 | German |
| 3571270 | Afton Chemical Corporation                                | 09/11/2017 | 3571270 | 17801304.1 |        |
| 3579441 | Vivo Mobile Communication Co., Ltd.                       | 30/01/2018 | 3579441 | 18748612.1 |        |
| 3579613 | ZTE Corporation                                           | 23/01/2018 | 3579613 | 18748132.0 |        |
| 3583058 | Werner GmbH & Co. Strassenreinigung KG                    | 13/02/2018 | 3583058 | 18705369.9 | German |
| 3585270 | Boston Scientific Scimed, Inc.                            | 26/02/2018 | 3585270 | 18712742.8 |        |
| 3586795 | France Chirurgie Instrumentation SAS                      | 25/06/2019 | 3586795 | 19182193.3 | French |
| 3586889 | Fenwal, Inc.                                              | 06/06/2014 | 3586889 | 19192538.7 |        |
| 3587321 | Otis Elevator Company                                     | 25/06/2019 | 3587321 | 19182430.9 |        |
| 3588667 | APR Technologies AB                                       | 25/06/2018 | 3588667 | 18179528.7 |        |
| 3590353 | CJ Cheiljedang Corporation                                | 28/02/2018 | 3590353 | 18760923.5 |        |
| 3592165 | Motionize Israel Ltd.                                     | 07/03/2018 | 3592165 | 18764361.4 |        |
| 3593071 | Aerofoil Energy Limited                                   | 08/03/2018 | 3593071 | 18711637.1 |        |
| 3596538 | LG Electronics Inc.                                       | 22/02/2018 | 3596538 | 18768594.6 |        |
| 3596852 | University of Surrey                                      | 13/03/2018 | 3596852 | 18711673.6 |        |
| 3596861 | QUALCOMM Incorporated                                     | 13/03/2018 | 3596861 | 18716031.2 |        |
| 3598734 | FUJIFILM Corporation                                      | 23/02/2018 | 3598734 | 18767832.1 |        |
| 3599955 | reamotion GmbH                                            | 29/03/2018 | 3599955 | 18716559.2 | German |
| 3600262 | E Ink Corporation                                         | 23/03/2018 | 3600262 | 18771343.3 |        |
| 3600893 | 3D Systems, Inc.                                          | 26/03/2018 | 3600893 | 18718269.6 |        |
| 3603620 | FUJIFILM Corporation                                      | 30/03/2018 | 3603620 | 18776957.5 |        |
| 3603694 | Nikkiso Co., Ltd.                                         | 22/03/2018 | 3603694 | 18770704.7 |        |
| 3606386 | Berry Plastics Corporation                                | 06/04/2018 | 3606386 | 18780978.5 |        |
| 3608664 | Premier Biotech, LLC                                      | 27/05/2014 | 3608664 | 19188518.5 |        |
| 3612019 | Radio Systems Corporation                                 | 20/04/2018 | 3612019 | 18787534.9 |        |
| 3616370 | Aalyria Technologies, Inc.                                | 25/04/2018 | 3616370 | 18790338.0 |        |
| 3620822 | STMicroelectronics (Research & Development) Limited       | 06/09/2018 | 3620822 | 18192988.6 |        |
| 3621193 | Hitachi Energy Ltd                                        | 06/09/2018 | 3621193 | 18193021.5 |        |

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| 3622168 | Pierburg GmbH                                                                   | 20/04/2018 | 3622168 | 18720557.0 | German |
| 3622323 | Qualcomm Incorporated                                                           | 15/02/2018 | 3622323 | 18708279.7 |        |
| 3623338 | Dai Nippon Printing Co., Ltd.                                                   | 08/05/2018 | 3623338 | 18798293.9 | German |
| 3624188 | GE Aviation Systems LLC                                                         | 13/09/2019 | 3624188 | 19197292.6 |        |
| 3624311 | Hamilton Sundstrand Corporation                                                 | 11/09/2019 | 3624311 | 19196793.4 |        |
| 3624484 | Huawei Technologies Co., Ltd.                                                   | 06/06/2017 | 3624484 | 17913070.3 |        |
| 3627426 | salesforce.com, inc.                                                            | 24/09/2019 | 3627426 | 19199075.3 |        |
| 3628596 | Rohr, Inc.                                                                      | 03/09/2019 | 3628596 | 19195211.8 |        |
| 3628943 | LG ELECTRONICS INC.                                                             | 27/09/2019 | 3628943 | 19200131.1 |        |
| 3630725 | Idorsia Pharmaceuticals Ltd                                                     | 31/05/2018 | 3630725 | 18728624.0 |        |
| 3631453 | Stichting Het Nederlands Kanker Instituut-<br>Antoni van Leeuwenhoek Ziekenhuis | 23/05/2018 | 3631453 | 18731219.4 |        |
| 3632977 | Takemoto Yushi Kabushiki Kaisha                                                 | 05/03/2018 | 3632977 | 18805417.5 |        |
| 3634252 | ConMed Corporation                                                              | 22/05/2018 | 3634252 | 18813329.2 | German |
| 3635356 | Hottinger Brüel & Kjaer GmbH                                                    | 06/06/2018 | 3635356 | 18769024.3 |        |
| 3635399 | Gnaho, Sylvain                                                                  | 01/06/2018 | 3635399 | 18735659.7 | French |
| 3638113 | Cornell University                                                              | 18/06/2018 | 3638113 | 18818131.7 |        |
| 3639066 | Shiuey, Yichieh                                                                 | 13/06/2018 | 3639066 | 18818038.4 | German |
| 3640561 | Midea Group Co., Ltd.                                                           | 30/09/2017 | 3640561 | 17914132.0 |        |
|         | GD Midea Air-Conditioning Equipment<br>Co., Ltd.                                |            |         |            |        |
| 3642848 | Sirona Dental Systems GmbH                                                      | 20/06/2018 | 3642848 | 18734781.0 |        |
| 3644516 | GE Video Compression, LLC                                                       | 12/01/2012 | 3644516 | 19195163.1 |        |
| 3646615 | Ecole de Technologie Supérieure                                                 | 26/06/2018 | 3646615 | 18823342.3 |        |
| 3648031 | Energy Absolute Public Company Limited<br>Blockfint Company Limited             | 21/11/2018 | 3648031 | 18207433.6 |        |
| 3648809 | Centre National de la Recherche<br>Scientifique                                 | 06/07/2018 | 3648809 | 18745836.9 | French |
|         | Université d'Aix Marseille<br>Ecole Centrale de Marseille                       |            |         |            |        |
| 3649567 | Microsoft Technology Licensing, LLC                                             | 22/06/2018 | 3649567 | 18740971.9 | German |
| 3649789 | Fraunhofer-Gesellschaft zur Förderung der<br>angewandten Forschung e.V.         | 06/07/2018 | 3649789 | 18734850.3 |        |
| 3650054 | National University Corporation Nara<br>Institute of<br>Science and Technology  | 02/08/2018 | 3650054 | 18845662.8 | German |
|         | Daikin Industries, Ltd.                                                         |            |         |            |        |
| 3650479 | Techno-UMG Co., Ltd.                                                            | 06/07/2018 | 3650479 | 18828853.4 |        |
| 3654081 | Panduit Corp.                                                                   | 15/11/2019 | 3654081 | 19209530.5 |        |
| 3655589 | Klein, Amos                                                                     | 18/07/2018 | 3655589 | 18836057.2 |        |
| 3657530 | JEOL Ltd.                                                                       | 19/11/2019 | 3657530 | 19210194.7 |        |
| 3658874 | Temple University - Of The<br>Commonwealth System of Higher<br>Education        | 26/07/2018 | 3658874 | 18837690.9 |        |
| 3658977 | Essilor International                                                           | 24/07/2018 | 3658977 | 18745905.2 |        |
| 3659739 | Subaru Corporation                                                              | 04/04/2018 | 3659739 | 18838351.7 |        |
| 3660911 | Samsung Display Co., Ltd.                                                       | 15/11/2019 | 3660911 | 19209574.3 | German |
| 3661239 | NTT DoCoMo, Inc.                                                                | 28/07/2017 | 3661239 | 17919433.7 |        |
| 3662081 | OSE Immunotherapeutics<br>Centre Hospitalier Universitaire De Nantes            | 03/08/2018 | 3662081 | 18746241.1 |        |
| 3662682 | Qualcomm Incorporated                                                           | 23/05/2018 | 3662682 | 18731263.2 |        |
| 3662712 | Huawei Technologies Co., Ltd.                                                   | 11/08/2018 | 3662712 | 18843668.7 |        |
| 3662814 | Tomey Corporation                                                               | 09/06/2016 | 3662814 | 20153468.2 |        |
| 3663265 | ECOPRO BM CO., LTD.                                                             | 10/09/2019 | 3663265 | 19196326.3 |        |
| 3664194 | LG Energy Solution, Ltd.                                                        | 06/11/2018 | 3664194 | 18875418.8 |        |
| 3664798 | Amneal Pharmaceuticals LLC                                                      | 06/08/2018 | 3664798 | 18845286.6 |        |
| 3665035 | Smart Auto Labs Inc.                                                            | 23/08/2018 | 3665035 | 18847508.1 | German |
| 3666169 | Aptiv Technologies AG                                                           | 11/12/2018 | 3666169 | 18211490.0 |        |
| 3667302 | Procemex Oy                                                                     | 20/11/2019 | 3667302 | 19210319.0 |        |
| 3667566 | Hitachi, Ltd.                                                                   | 10/12/2019 | 3667566 | 19215006.8 |        |
| 3667732 | Samsung Display Co., Ltd.                                                       | 13/12/2019 | 3667732 | 19215895.4 |        |

|         |                                                                                   |            |         |            |        |
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| 3669939 | RaySearch Laboratories AB                                                         | 20/12/2018 | 3669939 | 18214611.8 |        |
| 3670112 | Intuitive Surgical Operations, Inc.                                               | 14/02/2014 | 3670112 | 20152283.6 |        |
| 3671872 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                 | 17/12/2019 | 3671872 | 19217020.7 | French |
| 3673935 | Biosense Webster (Israel) Ltd.                                                    | 31/12/2019 | 3673935 | 19220214.1 |        |
| 3675037 | Beijing Keeyoo Technologies Co., Ltd.                                             | 02/08/2018 | 3675037 | 18849208.6 |        |
| 3675313 | Samsung Electronics Co., Ltd.                                                     | 18/09/2018 | 3675313 | 18857154.1 |        |
| 3676206 | Kimberly-Clark Worldwide, Inc.                                                    | 31/08/2017 | 3676206 | 17923356.4 |        |
| 3676752 | Sony Group Corporation                                                            | 23/08/2018 | 3676752 | 18769241.3 |        |
| 3676757 | Fing Limited                                                                      | 27/09/2018 | 3676757 | 18788907.6 |        |
| 3677071 | Amouris, Konstantinos                                                             | 28/08/2018 | 3677071 | 18849786.1 |        |
| 3677971 | Citizen Watch Co., Ltd.                                                           | 07/08/2018 | 3677971 | 18854970.3 |        |
| 3678759 | Merck Patent GmbH                                                                 | 04/09/2018 | 3678759 | 18759650.7 |        |
| 3678760 | Merck Patent GmbH                                                                 | 04/09/2018 | 3678760 | 18769299.1 |        |
| 3678782 | Access Medical Systems, Ltd.                                                      | 05/09/2018 | 3678782 | 18854365.6 |        |
| 3680573 | LG Electronics Inc.                                                               | 06/09/2018 | 3680573 | 18854669.1 |        |
| 3680994 | Biosense Webster (Israel) Ltd.                                                    | 21/12/2016 | 3680994 | 20160746.2 |        |
| 3681474 | Yissum Research Development Company<br>of the Hebrew University of Jerusalem Ltd. | 06/09/2018 | 3681474 | 18783586.3 |        |
| 3681511 | Technion Research & Development<br>Foundation Limited                             | 09/09/2018 | 3681511 | 18853165.1 |        |
| 3681545 | Bard Access Systems, Inc.                                                         | 14/09/2018 | 3681545 | 18859859.3 |        |
| 3681819 | WD-40 Manufacturing Company                                                       | 11/09/2018 | 3681819 | 18857058.4 |        |
| 3682426 | Microsoft Technology Licensing, LLC                                               | 22/06/2018 | 3682426 | 18743634.0 |        |
| 3683966 | Huf Hülsbeck & Fürst GmbH & Co. KG                                                | 20/12/2019 | 3683966 | 19218771.4 | German |
| 3684112 | Datang Mobile Communications Equipment<br>Co., Ltd.                               | 30/08/2018 | 3684112 | 18854160.1 |        |
| 3684766 | F. Hoffmann-La Roche AG                                                           | 19/09/2018 | 3684766 | 18769197.7 |        |
| 3685030 | Volvo Truck Corporation                                                           | 23/09/2017 | 3685030 | 17925590.6 |        |
| 3685635 | eldoLAB Holding B.V.                                                              | 20/09/2018 | 3685635 | 18789253.4 |        |
| 3686050 | Samsung SDI Co., Ltd.                                                             | 24/01/2019 | 3686050 | 19153443.7 |        |
| 3687525 | ChemoCentryx, Inc.                                                                | 24/09/2018 | 3687525 | 18857688.8 |        |
| 3688571 | Bose Corporation                                                                  | 25/09/2018 | 3688571 | 18786546.4 |        |
| 3688932 | ORANGE                                                                            | 13/09/2018 | 3688932 | 18783548.3 | French |
| 3690011 | Chenguang Biotech Group Co., Ltd.                                                 | 27/09/2018 | 3690011 | 18860317.9 |        |
| 3690040 | Ajinomoto Co., Inc.                                                               | 25/09/2018 | 3690040 | 18858730.7 |        |
| 3690077 | IHI Corporation                                                                   | 14/08/2018 | 3690077 | 18861380.6 |        |
|         | IHI Machinery and Furnace Co., Ltd.                                               |            |         |            |        |
| 3690554 | Ricoh Company, Ltd.                                                               | 23/01/2020 | 3690554 | 20153423.7 |        |
| 3690811 | StradVision, Inc.                                                                 | 09/01/2020 | 3690811 | 20150915.5 |        |
| 3691163 | Datang Mobile Communications Equipment<br>Co., Ltd.                               | 19/09/2018 | 3691163 | 18860560.4 |        |
| 3695826 | Beiersdorf AG                                                                     | 30/01/2018 | 3695826 | 20159767.1 | German |
| 3699221 | Hemicellulose Ltd.                                                                | 04/12/2019 | 3699221 | 19213417.9 |        |
| 3699936 | Delta Electronics (Thailand) Public Co.,<br>Ltd.                                  | 12/01/2017 | 3699936 | 20169447.8 |        |
| 3700868 | Hexem SA                                                                          | 29/10/2018 | 3700868 | 18870505.7 |        |
| 3702223 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                                | 13/02/2020 | 3702223 | 20157078.5 |        |
| 3703572 | Koninklijke Philips N.V.                                                          | 29/10/2018 | 3703572 | 18796876.3 |        |
| 3703602 | Intuitive Surgical Operations, Inc.                                               | 02/11/2018 | 3703602 | 18874593.9 |        |
| 3705511 | LG CHEM, LTD.                                                                     | 29/11/2018 | 3705511 | 18889096.6 |        |
| 3706063 | Verint Americas Inc.                                                              | 06/03/2020 | 3706063 | 20161571.3 |        |
| 3707729 | Canatu Finland Oy                                                                 | 08/11/2018 | 3707729 | 18811324.5 |        |
| 3707752 | Everspin Technologies, Inc.                                                       | 08/11/2018 | 3707752 | 18812466.3 |        |
| 3709414 | Honeywell International Inc.                                                      | 06/03/2020 | 3709414 | 20161659.6 |        |
| 3711407 | ZTE Corporation                                                                   | 17/11/2017 | 3711407 | 17932234.2 |        |
| 3713031 | LEONI Bordnetz-Systeme GmbH                                                       | 22/01/2020 | 3713031 | 20020036.8 | German |
| 3713648 | A Shepard's Protection LLC                                                        | 04/09/2018 | 3713648 | 18882205.0 |        |
| 3716936 | Colgate-Palmolive Company                                                         | 01/12/2017 | 3716936 | 17829742.0 |        |
| 3717051 | Infraredx, Inc.                                                                   | 14/09/2018 | 3717051 | 18933250.5 |        |
| 3718303 | Qualcomm Incorporated                                                             | 27/11/2018 | 3718303 | 18816457.8 |        |

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|---------|--------------------------------------------------|------------|---------|------------|--------|
| 3719261 | RTX Corporation                                  | 27/03/2020 | 3719261 | 20166506.4 |        |
| 3719669 | INTEL Corporation                                | 07/01/2020 | 3719669 | 20150448.7 |        |
| 3721795 | Samsung Electronics Co., Ltd.                    | 09/01/2019 | 3721795 | 19747836.5 |        |
| 3722593 | Wobben Properties GmbH                           | 12/03/2013 | 3722593 | 20172995.1 |        |
| 3722752 | Malikie Innovations Limited                      | 29/04/2009 | 3722752 | 20156619.7 |        |
| 3723110 | ABB Schweiz AG                                   | 12/04/2019 | 3723110 | 19169064.3 |        |
| 3723914 | Royal Melbourne Institute of Technology          | 11/12/2018 | 3723914 | 18887984.5 |        |
| 3724269 | Braskem America, Inc.                            | 13/12/2018 | 3724269 | 18887477.0 |        |
| 3724297 | Redrock Investment B.V.                          | 15/12/2017 | 3724297 | 17837869.1 |        |
| 3724411 | Mimbly AB                                        | 10/12/2018 | 3724411 | 18822164.2 |        |
| 3724712 | Magic Leap, Inc.                                 | 10/12/2018 | 3724712 | 18889627.8 |        |
| 3724967 | Saint-Gobain Performance Plastics Rencol Limited | 14/12/2018 | 3724967 | 18826550.8 |        |
| 3726119 | Hangzhou Hikvision Digital Technology Co., Ltd.  | 03/08/2018 | 3726119 | 18889640.1 |        |
| 3726418 | BOE Technology Group Co., Ltd.                   | 30/11/2018 | 3726418 | 18889260.8 |        |
| 3726637 | LG Energy Solution, Ltd.                         | 23/12/2019 | 3726637 | 19908076.3 |        |
| 3727084 | Peka Pinselfabrik AG                             | 22/11/2018 | 3727084 | 18811134.8 | German |
| 3727675 | UOP LLC                                          | 20/12/2018 | 3727675 | 18891437.8 |        |
| 3728042 | Bombardier Inc.                                  | 18/12/2018 | 3728042 | 18891418.8 |        |
| 3728422 | Cytec Industries Inc.                            | 18/12/2018 | 3728422 | 18834142.4 |        |
| 3728543 | Danisco US Inc.                                  | 19/11/2018 | 3728543 | 18815450.4 |        |
| 3728750 | Wavin B.V.                                       | 20/12/2018 | 3728750 | 18830472.9 |        |
| 3728994 | THALES                                           | 20/12/2018 | 3728994 | 18822097.4 | French |
| 3729654 | MICRON TECHNOLOGY, INC.                          | 19/12/2018 | 3729654 | 18891110.1 |        |
| 3730040 | Medi Whale Inc.                                  | 20/12/2018 | 3730040 | 18890528.5 |        |
| 3731294 | InnoLux Corporation                              | 26/03/2020 | 3731294 | 20165781.4 |        |
| 3732934 | Nicoventures Trading Limited                     | 18/12/2018 | 3732934 | 18830790.4 |        |
| 3733216 | The University of Osaka                          | 28/12/2018 | 3733216 | 18894698.2 |        |
| 3733434 | Shanghai Dianba New Energy Technology Co., Ltd.  | 29/12/2018 | 3733434 | 18894253.6 |        |
|         | Aulton New Energy Automotive Technology Group    |            |         |            |        |
| 3736769 | FEI Company                                      | 06/05/2020 | 3736769 | 20173113.0 |        |
| 3736949 | Mitsuba Corporation                              | 05/01/2018 | 3736949 | 18898036.1 |        |
| 3736951 | Mitsuba Corporation                              | 05/01/2018 | 3736951 | 18898398.5 |        |
| 3737145 | Huawei Technologies Co., Ltd.                    | 18/01/2019 | 3737145 | 19741844.5 |        |
| 3737300 | Maquet Cardiovascular LLC                        | 08/01/2019 | 3737300 | 19738392.0 |        |
| 3737330 | American Sterilizer Company                      | 27/12/2018 | 3737330 | 18899191.3 |        |
| 3738273 | Telefonaktiebolaget LM Ericsson (publ)           | 12/01/2018 | 3738273 | 18899284.6 |        |
| 3738390 | Innovative Technology Lab Co., Ltd.              | 14/01/2019 | 3738390 | 19738295.5 |        |
| 3738404 | Ubicquia, Inc.                                   | 08/01/2019 | 3738404 | 19706048.6 |        |
| 3738506 | Motionize Israel Ltd.                            | 07/03/2018 | 3738506 | 20185324.9 |        |
| 3739758 | Huf Hülsbeck & Fürst GmbH & Co. KG               | 12/05/2020 | 3739758 | 20174054.5 | German |
| 3740870 | Microsoft Technology Licensing, LLC              | 19/01/2018 | 3740870 | 18901089.5 |        |
| 3742297 | Hangzhou Hikvision Digital Technology Co., Ltd.  | 19/03/2019 | 3742297 | 19778407.7 |        |
| 3742368 | Sumitomo Electric Optifrontier Co., Ltd.         | 28/12/2018 | 3742368 | 18900962.4 |        |
| 3744408 | FUJITSU LIMITED                                  | 24/01/2018 | 3744408 | 18902325.2 |        |
| 3744918 | Diab International AB                            | 27/05/2019 | 3744918 | 19176779.7 |        |
| 3744926 | Sorkin, Felix, L.                                | 19/05/2020 | 3744926 | 20175354.8 |        |
| 3745297 | HUAWEI TECHNOLOGIES CO., LTD.                    | 07/02/2018 | 3745297 | 18905678.1 |        |
| 3747237 | D&M Holdings, Inc.                               | 30/01/2019 | 3747237 | 19747912.4 |        |
| 3748409 | HUAWEI TECHNOLOGIES CO., LTD.                    | 12/12/2018 | 3748409 | 18904761.6 |        |
| 3749934 | Société des Produits Nestlé S.A.                 | 04/02/2019 | 3749934 | 19701881.5 |        |
| 3750161 | Google LLC                                       | 10/08/2018 | 3750161 | 18762961.3 |        |
| 3750253 | Samsung Electronics Co., Ltd.                    | 03/05/2019 | 3750253 | 19797142.7 |        |
| 3751043 | Qingdao Haier Drum Washing Machine Co., Ltd.     | 31/01/2019 | 3751043 | 19747850.6 |        |
|         | Haier Smart Home Co., Ltd.                       |            |         |            |        |
| 3751628 | United Microelectronics Corp.                    | 14/05/2020 | 3751628 | 20174578.3 |        |
| 3752408 | Siemens Aktiengesellschaft                       | 09/09/2019 | 3752408 | 19768745.2 | German |

|         |                                                                                                  |            |         |            |        |
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| 3752865 | Doseoptics LLC<br>The Trustees Of Dartmouth College                                              | 18/01/2019 | 3752865 | 19740744.8 |        |
| 3754462 | THE CALANY Holding S.à.r.l.                                                                      | 18/06/2020 | 3754462 | 20180712.0 |        |
| 3754659 | United Microelectronics Corp.                                                                    | 30/03/2020 | 3754659 | 20166735.9 |        |
| 3755080 | Vivo Mobile Communication Co., Ltd.                                                              | 03/02/2019 | 3755080 | 19754712.8 |        |
| 3755223 | T.J.SMITH AND NEPHEW, LIMITED                                                                    | 19/02/2019 | 3755223 | 19706572.5 |        |
| 3757899 | NVIDIA Corporation                                                                               | 28/05/2020 | 3757899 | 20177069.0 |        |
| 3758770 | Drägerwerk AG & Co. KGaA                                                                         | 24/05/2019 | 3758770 | 19728901.0 | German |
| 3759318 | Siemens Energy Global GmbH & Co. KG                                                              | 30/03/2018 | 3759318 | 18718371.0 |        |
| 3759388 | Polygroup Macau Limited (BVI)<br>Lyu, Shuangyi<br>Ocegueda Gallaga, Victor Hugo<br>Zhang, Yifeng | 27/02/2019 | 3759388 | 19761538.8 |        |
| 3760267 | Biosense Webster (Israel) Ltd.                                                                   | 02/07/2020 | 3760267 | 20183632.7 |        |
| 3760544 | Hamilton Sundstrand Corporation                                                                  | 09/12/2019 | 3760544 | 19214569.6 |        |
| 3760606 | LG CHEM, LTD.                                                                                    | 01/02/2019 | 3760606 | 19760473.9 |        |
| 3761027 | Mitsubishi Tanabe Pharma Corporation                                                             | 27/02/2019 | 3761027 | 19760101.6 |        |
| 3761092 | CommScope Connectivity Belgium BVBA                                                              | 25/08/2014 | 3761092 | 20190363.0 |        |
| 3761150 | Apple Inc.                                                                                       | 31/03/2009 | 3761150 | 20000298.8 |        |
| 3761186 | Sony Interactive Entertainment LLC                                                               | 17/02/2016 | 3761186 | 20191048.6 |        |
| 3762072 | 1929803 Ontario Corp. D/B/A Flosonics<br>Medical                                                 | 08/03/2019 | 3762072 | 19763312.6 |        |
| 3763282 | Nidek Co., Ltd.                                                                                  | 28/02/2019 | 3763282 | 19764141.8 |        |
| 3763747 | DAIKIN INDUSTRIES, LTD.                                                                          | 07/03/2019 | 3763747 | 19764428.9 |        |
| 3764437 | LG Energy Solution, Ltd.                                                                         | 09/12/2019 | 3764437 | 19891926.8 |        |
| 3764700 | Panasonic Intellectual Property Corporation<br>of America                                        | 27/02/2019 | 3764700 | 19764400.8 |        |
| 3766808 | SULO France                                                                                      | 16/07/2020 | 3766808 | 20186316.4 | French |
| 3767524 | Samsung Electronics Co., Ltd.                                                                    | 03/06/2020 | 3767524 | 20178080.6 |        |
| 3767555 | Omron Corporation                                                                                | 07/03/2019 | 3767555 | 19768087.9 |        |
| 3768263 | LobSor Pharmaceuticals Aktiebolag                                                                | 22/03/2019 | 3768263 | 19715590.6 |        |
| 3769111 | Xonar Technology Inc.                                                                            | 21/03/2019 | 3769111 | 19715676.3 |        |
| 3769151 | Snap Inc.                                                                                        | 22/03/2019 | 3769151 | 19715767.0 |        |
| 3769246 | Samsung Electronics Co., Ltd.                                                                    | 18/07/2019 | 3769246 | 19836976.1 |        |
| 3769460 | Samsung Electronics Co., Ltd.                                                                    | 09/05/2019 | 3769460 | 19800060.6 |        |
| 3770403 | Hamilton Sundstrand Corporation                                                                  | 13/12/2019 | 3770403 | 19216263.4 |        |
| 3770483 | Nitto Denko Corporation                                                                          | 22/03/2019 | 3770483 | 19770523.9 |        |
| 3771939 | ESSILOR INTERNATIONAL                                                                            | 31/07/2019 | 3771939 | 19305995.3 |        |
| 3772450 | ONO GmbH                                                                                         | 19/06/2020 | 3772450 | 20181235.1 | German |
| 3773305 | 7D Surgical ULC                                                                                  | 08/04/2019 | 3773305 | 19785381.5 |        |
| 3774059 | Xzom, Inc.                                                                                       | 01/04/2019 | 3774059 | 19781170.6 |        |
| 3774767 | Beth Israel Deaconess Medical Center, Inc.                                                       | 05/04/2019 | 3774767 | 19718983.0 |        |
| 3774917 | Nanjing Legend Biotech Co., Ltd.                                                                 | 29/03/2019 | 3774917 | 19776254.5 |        |
| 3775419 | SIMPSON STRONG-TIE COMPANY<br>INC.                                                               | 21/03/2019 | 3775419 | 19715693.8 |        |
| 3776093 | Dualitas Ltd.                                                                                    | 22/08/2019 | 3776093 | 19761791.3 |        |
| 3776721 | SAAB AB                                                                                          | 13/04/2018 | 3776721 | 18914021.3 |        |
| 3776740 | Wago Verwaltungsgesellschaft mbH                                                                 | 28/03/2019 | 3776740 | 19714613.7 | German |
| 3776981 | QUALCOMM Incorporated                                                                            | 03/04/2019 | 3776981 | 19718038.3 |        |
| 3777178 | InterDigital VC Holdings, Inc.                                                                   | 19/03/2019 | 3777178 | 19713337.4 |        |
| 3777248 | Nokia Technologies Oy                                                                            | 13/03/2019 | 3777248 | 19781890.9 |        |
| 3777604 | LG CHEM, LTD.                                                                                    | 10/04/2019 | 3777604 | 19784662.9 |        |
| 3777605 | LG CHEM, LTD.                                                                                    | 10/04/2019 | 3777605 | 19784663.7 |        |
| 3777662 | Apple Inc.                                                                                       | 25/09/2018 | 3777662 | 20196748.6 |        |
| 3778099 | Panasonic Intellectual Property<br>Management Co., Ltd.                                          | 19/03/2019 | 3778099 | 19784215.6 |        |
| 3779141 | NISSAN MOTOR CO., LTD.<br>Renault s.a.s                                                          | 10/04/2018 | 3779141 | 18914383.7 |        |
| 3779481 | LG Energy Solution, Ltd.                                                                         | 18/11/2019 | 3779481 | 19886153.6 |        |
| 3779510 | Pioneer Corporation                                                                              | 26/03/2019 | 3779510 | 19777416.9 |        |
| 3779626 | Rockwell Collins, Inc.                                                                           | 13/12/2019 | 3779626 | 19216290.7 |        |
| 3780527 | Samsung Electronics Co., Ltd.                                                                    | 03/04/2019 | 3780527 | 19803107.2 |        |



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| 3780567 | HUAWEI TECHNOLOGIES CO., LTD.                                                             | 05/03/2019 | 3780567 | 19808242.2 |        |
| 3780844 | Vivo Mobile Communication Co., Ltd.                                                       | 01/04/2019 | 3780844 | 19784306.3 |        |
| 3782063 | Conocophillips Company                                                                    | 17/04/2019 | 3782063 | 19788045.3 |        |
| 3782900 | Kawasaki Jukogyo Kabushiki Kaisha                                                         | 17/04/2019 | 3782900 | 19787704.6 |        |
| 3783785 | Kyosan Electric Mfg. Co., Ltd.                                                            | 24/04/2018 | 3783785 | 18915198.8 |        |
| 3784639 | thyssenkrupp Uhde Fertilizer Technology GmbH                                              | 12/04/2019 | 3784639 | 19716200.1 |        |
|         | thyssenkrupp AG                                                                           |            |         |            |        |
| 3787472 | Relign Corporation                                                                        | 30/04/2019 | 3787472 | 19797009.8 |        |
| 3787531 | BOSTON SCIENTIFIC LIMITED                                                                 | 29/04/2019 | 3787531 | 19729356.6 |        |
| 3788027 | Scientific Design LLC                                                                     | 30/04/2019 | 3788027 | 19795832.5 |        |
| 3790062 | Seoul Semiconductor Co., Ltd.                                                             | 12/06/2019 | 3790062 | 19834306.3 |        |
| 3791336 | Siemens Aktiengesellschaft                                                                | 10/05/2019 | 3791336 | 19799360.3 |        |
| 3791852 | Infinitec Activos S.L.                                                                    | 13/09/2019 | 3791852 | 19382793.8 |        |
| 3793411 | Sleep Number Corporation                                                                  | 31/12/2019 | 3793411 | 19858702.4 |        |
| 3794474 | Microsoft Technology Licensing, LLC                                                       | 10/05/2019 | 3794474 | 19725831.2 |        |
| 3794541 | The Procter & Gamble Company                                                              | 15/05/2019 | 3794541 | 19728805.3 |        |
| 3794899 | Samsung Electronics Co., Ltd.                                                             | 19/06/2019 | 3794899 | 19822995.7 |        |
| 3795316 | Ledermann GmbH & Co. KG                                                                   | 19/09/2019 | 3795316 | 19198341.0 | German |
| 3795973 | L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE | 10/09/2020 | 3795973 | 20195427.8 | French |
| 3796387 | Sony Semiconductor Solutions Corporation                                                  | 08/04/2019 | 3796387 | 19803101.5 |        |
| 3796827 | Verb Surgical Inc.                                                                        | 07/06/2018 | 3796827 | 18920011.6 |        |
| 3797029 | UBC Composites GmbH                                                                       | 22/05/2019 | 3797029 | 19726646.3 | German |
| 3797991 | Toray Industries, Inc.                                                                    | 25/06/2019 | 3797991 | 19826280.0 |        |
| 3798488 | SMC Corporation                                                                           | 25/09/2020 | 3798488 | 20198267.5 |        |
| 3798526 | Piovan S.P.A.                                                                             | 07/05/2019 | 3798526 | 20208420.8 |        |
| 3798918 | Naver Corporation                                                                         | 26/09/2019 | 3798918 | 19306204.9 |        |
| 3798945 | Siemens Mobility S.A.S.                                                                   | 30/09/2019 | 3798945 | 19306236.1 |        |
| 3798994 | General Electric Company                                                                  | 15/09/2020 | 3798994 | 20196310.5 |        |
| 3800548 | Palantir Technologies Inc.                                                                | 30/09/2020 | 3800548 | 20199477.9 |        |
| 3800719 | LG Energy Solution, Ltd.                                                                  | 03/01/2020 | 3800719 | 20736205.4 |        |
| 3801210 | Dreamwell, Ltd.                                                                           | 23/05/2019 | 3801210 | 19737597.5 |        |
| 3801228 | Accurate Meditech Inc                                                                     | 24/05/2019 | 3801228 | 19806969.2 |        |
| 3803325 | Photothermal Spectroscopy Corp.                                                           | 31/05/2019 | 3803325 | 19811466.2 |        |
| 3803444 | Robert Bosch GmbH                                                                         | 14/03/2019 | 3803444 | 19716077.3 | German |
| 3803652 | Intuit Inc.                                                                               | 06/05/2019 | 3803652 | 19811685.7 |        |
| 3804228 | Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.                             | 05/06/2018 | 3804228 | 18731010.7 |        |
| 3805275 | Kuraray Co., Ltd.                                                                         | 22/05/2019 | 3805275 | 19811482.9 |        |
| 3805914 | Sony Group Corporation                                                                    | 11/04/2019 | 3805914 | 19806770.4 |        |
| 3806463 | Huawei Technologies Co., Ltd.                                                             | 23/12/2016 | 3806463 | 20205573.7 |        |
| 3806526 | HUAWEI TECHNOLOGIES CO., LTD.                                                             | 28/06/2019 | 3806526 | 19824854.4 |        |
| 3807208 | Dwyer Instruments, Inc.                                                                   | 29/05/2019 | 3807208 | 19820632.8 |        |
| 3807479 | Siemens Energy Global GmbH & Co. KG                                                       | 09/07/2019 | 3807479 | 19745986.0 | German |
| 3807700 | Continental Automotive Technologies GmbH                                                  | 13/06/2019 | 3807700 | 19731670.6 | German |
| 3807953 | IEE International Electronics & Engineering S.A.                                          | 12/06/2019 | 3807953 | 19729069.5 |        |
| 3808443 | Mitsubishi Chemical Corporation                                                           | 13/06/2019 | 3808443 | 19818929.2 |        |
| 3808770 | The U.S.A. as represented by the Secretary, Department of Health and Human Services       | 12/11/2015 | 3808770 | 20208238.4 |        |
| 3809134 | SYSMEX CORPORATION                                                                        | 24/06/2020 | 3809134 | 20181933.1 |        |
| 3809857 | Chr. Hansen A/S                                                                           | 20/06/2019 | 3809857 | 19730848.9 |        |
| 3810567 | Firmenich SA                                                                              | 29/10/2019 | 3810567 | 19794570.2 |        |
| 3810772 | Covestro Deutschland AG                                                                   | 18/06/2019 | 3810772 | 19742687.7 | German |
| 3810847 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                                            | 04/06/2019 | 3810847 | 19745669.2 | French |
| 3811198 | Samsung Electronics Co., Ltd.                                                             | 03/09/2019 | 3811198 | 19863208.5 |        |

|         |                                                                                                               |            |         |            |        |
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| 3811684 | InterDigital Patent Holdings, Inc.                                                                            | 14/06/2019 | 3811684 | 19737343.4 |        |
| 3814052 | Saint-Gobain Abrasives, Inc.                                                                                  | 28/06/2019 | 3814052 | 19824682.9 |        |
|         | SAINT-GOBAIN SURFACE SOLUTIONS<br>FRANCE                                                                      |            |         |            |        |
| 3814203 | Turner R & D Limited                                                                                          | 24/06/2019 | 3814203 | 19734864.2 |        |
| 3814266 | INVENTIO AG                                                                                                   | 26/06/2019 | 3814266 | 19732379.3 | German |
| 3814700 | LG Electronics Inc.                                                                                           | 25/06/2019 | 3814700 | 19824817.1 |        |
| 3815135 | Xilinx, Inc.                                                                                                  | 28/06/2019 | 3815135 | 19745380.6 |        |
| 3815203 | TRUMPF Photonic Components GmbH                                                                               | 17/06/2019 | 3815203 | 19730787.9 |        |
| 3815559 | Shenzhen Smoore Technology Limited                                                                            | 21/08/2019 | 3815559 | 19862598.0 |        |
| 3815974 | LEIVA LETELIER, Daniel                                                                                        | 24/06/2019 | 3815974 | 19824947.6 |        |
| 3816385 | Gunnebo Entrance Control Ltd.                                                                                 | 23/09/2020 | 3816385 | 20197918.4 |        |
| 3818068 | Drawbridge Pharmaceuticals Pty Ltd                                                                            | 03/07/2019 | 3818068 | 19830409.9 |        |
| 3818949 | Covidien LP                                                                                                   | 06/11/2020 | 3818949 | 20206121.4 |        |
| 3819105 | Tsudakoma Kogyo Kabushiki Kaisha                                                                              | 28/10/2020 | 3819105 | 20204438.4 |        |
| 3819250 | Otis Elevator Company                                                                                         | 06/11/2020 | 3819250 | 20206248.5 |        |
| 3819749 | KYOCERA Document Solutions Inc.                                                                               | 28/06/2019 | 3819749 | 19831578.0 |        |
| 3819758 | Beijing Baidu Netcom Science and<br>Technology Co., Ltd.<br>KunlunXin Technology (Beijing) Company<br>Limited | 23/03/2021 | 3819758 | 21164336.6 |        |
| 3820743 | Renault s.a.s                                                                                                 | 27/06/2019 | 3820743 | 19734384.1 | French |
| 3821412 | Carrier Corporation                                                                                           | 02/07/2019 | 3821412 | 19745409.3 |        |
| 3821876 | LG Chem, Ltd.                                                                                                 | 16/07/2019 | 3821876 | 19838082.6 |        |
|         | LG Household & Health Care Ltd.                                                                               |            |         |            |        |
| 3822941 | Apollo Intelligent Connectivity (Beijing)<br>Technology Co., Ltd.                                             | 14/07/2020 | 3822941 | 20185636.6 |        |
| 3823318 | Optis Wireless Technology, LLC                                                                                | 03/04/2008 | 3823318 | 20215897.8 |        |
| 3823328 | Samsung Electronics Co., Ltd.                                                                                 | 13/09/2016 | 3823328 | 20214309.5 |        |
| 3823632 | Merck Sharp & Dohme LLC                                                                                       | 12/07/2019 | 3823632 | 19837129.6 |        |
| 3823904 | Hercules LLC                                                                                                  | 19/07/2019 | 3823904 | 19837765.7 |        |
| 3824233 | Samsung Electronics Co., Ltd.                                                                                 | 09/09/2019 | 3824233 | 19862517.0 |        |
| 3824382 | Hewlett-Packard Development Company,<br>L.P.                                                                  | 26/09/2018 | 3824382 | 18935117.4 |        |
| 3824651 | Samsung Electronics Co., Ltd.                                                                                 | 30/08/2019 | 3824651 | 19857309.9 |        |
| 3824917 | FUJIFILM Corporation                                                                                          | 17/07/2019 | 3824917 | 19838185.7 |        |
| 3824932 | Fisher & Paykel Healthcare Limited                                                                            | 17/03/2015 | 3824932 | 20214771.6 |        |
| 3825100 | Quantica GmbH                                                                                                 | 19/11/2019 | 3825100 | 19210067.5 |        |
| 3825279 | Kuraray Co., Ltd.                                                                                             | 17/07/2019 | 3825279 | 19838433.1 |        |
| 3825601 | Audi AG                                                                                                       | 18/11/2020 | 3825601 | 20208405.9 | German |
| 3826582 | Nanohive Medical LLC                                                                                          | 26/07/2019 | 3826582 | 19840280.2 |        |
| 3827812 | The Regents of the University of California<br>The Trustees of The University of<br>Pennsylvania              | 27/07/2017 | 3827812 | 20209064.3 |        |
| 3828164 | Autotac Inc.                                                                                                  | 24/07/2019 | 3828164 | 19840830.4 |        |
| 3828643 | ROLEX SA                                                                                                      | 19/11/2020 | 3828643 | 20208563.5 | French |
| 3829236 | ZTE Corporation                                                                                               | 15/07/2019 | 3829236 | 19840564.9 |        |
| 3829285 | Fuji Corporation                                                                                              | 24/07/2018 | 3829285 | 18927474.9 |        |
| 3829485 | BVW Invest AG                                                                                                 | 29/07/2019 | 3829485 | 19759078.9 |        |
| 3829951 | Siemens Mobility GmbH                                                                                         | 11/09/2019 | 3829951 | 19782904.7 | German |
| 3830638 | ESSILOR INTERNATIONAL                                                                                         | 26/07/2019 | 3830638 | 19744723.8 |        |
| 3830811 | Tyromotion GmbH                                                                                               | 29/07/2019 | 3830811 | 19758613.4 |        |
| 3831104 | Samsung Electronics Co., Ltd.                                                                                 | 06/09/2019 | 3831104 | 19858527.5 |        |
| 3831433 | Fisher & Paykel Healthcare Limited                                                                            | 09/09/2013 | 3831433 | 20214766.6 |        |
| 3831933 | FUJIFILM Corporation                                                                                          | 26/07/2019 | 3831933 | 19842104.2 |        |
| 3832038 | Viega Technology GmbH & Co. KG                                                                                | 19/11/2020 | 3832038 | 20208517.1 | German |
| 3832898 | Samsung Electronics Co., Ltd.                                                                                 | 24/09/2019 | 3832898 | 19866289.2 |        |
| 3833035 | LG Electronics Inc.                                                                                           | 25/03/2020 | 3833035 | 20165532.1 |        |
| 3833272 | The Foundry, LLC                                                                                              | 09/08/2019 | 3833272 | 19759212.4 |        |
| 3833412 | Mylan Inc.                                                                                                    | 10/07/2018 | 3833412 | 18925742.1 |        |
| 3834058 | Audi AG                                                                                                       | 21/05/2019 | 3834058 | 19725971.6 | German |
| 3834335 | Telefonaktiebolaget LM Ericsson (publ)                                                                        | 07/08/2019 | 3834335 | 19752678.3 |        |

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| 3834420 | HFI Innovation Inc.                                                                                         | 20/08/2019 | 3834420 | 19851748.4 |        |
| 3835247 | KONE Corporation                                                                                            | 10/12/2019 | 3835247 | 19214831.0 |        |
| 3835248 | KONE Corporation                                                                                            | 10/12/2019 | 3835248 | 19214833.6 |        |
| 3835318 | F. Hoffmann-La Roche AG                                                                                     | 12/01/2015 | 3835318 | 20214926.6 |        |
| 3835498 | Orbital Systems AB                                                                                          | 22/11/2017 | 3835498 | 21153619.8 |        |
| 3836065 | Shopify Inc.                                                                                                | 30/07/2020 | 3836065 | 20188513.4 |        |
| 3837318 | 3M Innovative Properties Company                                                                            | 15/08/2018 | 3837318 | 18929935.7 |        |
| 3838823 | Aladdin Manufacturing Corporation                                                                           | 31/01/2020 | 3838823 | 20154821.1 |        |
| 3839190 | Novoferm Schievano S.r.l.                                                                                   | 14/12/2020 | 3839190 | 20213928.3 |        |
| 3839499 | F. Hoffmann-La Roche AG                                                                                     | 19/12/2019 | 3839499 | 19218013.1 |        |
| 3840880 | Waters Technologies Corporation                                                                             | 20/08/2019 | 3840880 | 19762080.0 |        |
| 3841602 | Eaton Intelligent Power Limited                                                                             | 14/08/2019 | 3841602 | 19762085.9 |        |
| 3842015 | RCM Enterprise, LLC                                                                                         | 25/08/2016 | 3842015 | 20158615.3 |        |
| 3842748 | BAIDU ONLINE NETWORK<br>TECHNOLOGY (BEIJING) CO., LTD.                                                      | 31/03/2021 | 3842748 | 21166144.2 |        |
| 3843069 | Samsung Display Co., Ltd.                                                                                   | 15/12/2020 | 3843069 | 20214134.7 |        |
| 3843149 | LG Display Co., Ltd.                                                                                        | 09/12/2020 | 3843149 | 20212697.5 |        |
| 3843246 | Unison Industries LLC                                                                                       | 10/12/2020 | 3843246 | 20213208.0 |        |
| 3843352 | Samsung Electronics Co., Ltd.                                                                               | 20/09/2019 | 3843352 | 19862960.2 |        |
| 3843362 | Samsung Electronics Co., Ltd.                                                                               | 04/09/2019 | 3843362 | 19859325.3 |        |
| 3843640 | The College of the Holy & Undivided<br>Trinity of Queen Elizabeth<br>National University of Ireland, Galway | 30/08/2019 | 3843640 | 19808874.2 |        |
| 3845288 | Murata Manufacturing Co., Ltd.                                                                              | 20/12/2019 | 3845288 | 19908550.7 |        |
| 3845913 | OpenLight Photonics, Inc.                                                                                   | 24/03/2020 | 3845913 | 20165280.7 |        |
| 3846563 | Panasonic Holdings Corporation                                                                              | 18/11/2008 | 3846563 | 21157566.7 |        |
| 3846788 | Universiteit van Amsterdam                                                                                  | 05/09/2019 | 3846788 | 19783154.8 |        |
| 3846910 | Henkel AG & Co. KGaA                                                                                        | 07/09/2018 | 3846910 | 18768837.9 |        |
| 3847039 | Société BIC                                                                                                 | 06/09/2019 | 3847039 | 19762416.6 |        |
| 3847040 | Société BIC                                                                                                 | 06/09/2019 | 3847040 | 19762417.4 |        |
| 3847062 | KNORR-BREMSE<br>Systeme für Schienenfahrzeuge GmbH                                                          | 06/08/2019 | 3847062 | 19755841.4 | German |
| 3847547 | AVEVA Software, LLC                                                                                         | 04/09/2019 | 3847547 | 19858175.3 |        |
| 3847631 | ABB Schweiz AG                                                                                              | 04/09/2019 | 3847631 | 19883623.1 |        |
| 3847649 | Iridia, Inc.                                                                                                | 06/09/2019 | 3847649 | 19858030.0 |        |
| 3847914 | Shenzhen Smoore Technology Limited                                                                          | 05/09/2019 | 3847914 | 19857117.6 |        |
| 3847985 | Jiangsu Hope Biomedical Science &<br>Technology Co., Ltd.                                                   | 10/04/2019 | 3847985 | 19857797.5 |        |
| 3848362 | Nippon Soda Co., Ltd.                                                                                       | 02/09/2019 | 3848362 | 19856813.1 |        |
| 3848575 | Nordex Energy SE & Co. KG                                                                                   | 09/01/2020 | 3848575 | 20150972.6 | German |
| 3849172 | Sony Group Corporation                                                                                      | 26/04/2016 | 3849172 | 21160686.8 |        |
| 3849573 | The Regents of The University of California                                                                 | 13/09/2019 | 3849573 | 19859526.6 |        |
| 3850372 | Becton Dickinson and Company                                                                                | 10/09/2019 | 3850372 | 19860073.6 |        |
| 3850703 | Endress+Hauser SE+Co. KG                                                                                    | 13/08/2019 | 3850703 | 19753076.9 | German |
| 3851188 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                                                          | 11/12/2020 | 3851188 | 20213306.2 |        |
| 3851315 | LG Electronics Inc.                                                                                         | 06/09/2019 | 3851315 | 19860125.4 |        |
| 3851337 | Shanghai Yanfeng Jinqiao Automotive<br>Trim Systems Co., Ltd.                                               | 16/09/2019 | 3851337 | 19859386.5 |        |
| 3851888 | FURUKAWA ELECTRIC CO., LTD.                                                                                 | 29/08/2019 | 3851888 | 19860710.3 |        |
| 3852423 | Datang Mobile Communications Equipment<br>Co., Ltd.                                                         | 11/11/2019 | 3852423 | 19885501.7 |        |
| 3852485 | Samsung Electronics Co., Ltd.                                                                               | 11/09/2019 | 3852485 | 19859587.8 |        |
| 3852578 | Decruy nv                                                                                                   | 19/09/2019 | 3852578 | 19787080.1 |        |
| 3853066 | HTS Hans Torgersen & Sønn AS                                                                                | 17/09/2019 | 3853066 | 19773027.8 |        |
| 3853154 | SIDEL CANADA INC.                                                                                           | 19/09/2018 | 3853154 | 18934511.9 | French |
| 3853553 | Bridon International Ltd.                                                                                   | 19/09/2019 | 3853553 | 19787081.9 |        |
| 3853614 | Waters Technologies Ireland Limited                                                                         | 20/09/2019 | 3853614 | 19780024.6 |        |
| 3853732 | Google LLC                                                                                                  | 18/12/2019 | 3853732 | 19839305.0 |        |
| 3855063 | SenseGuard GmbH                                                                                             | 22/01/2021 | 3855063 | 21153008.4 | German |
| 3855469 | Ubukata Industries Co., Ltd.                                                                                | 20/09/2018 | 3855469 | 18934327.0 |        |
| 3855499 | Iray Technology Company Limited                                                                             | 23/09/2020 | 3855499 | 20197625.5 |        |

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| 3855650 | Datang Mobile Communications Equipment Co., Ltd.                         | 18/09/2019 | 3855650 | 19863862.9 |        |
| 3855825 | Beijing Xiaomi Mobile Software Co., Ltd.                                 | 27/09/2018 | 3855825 | 18935156.2 |        |
| 3856134 | Huntsman Petrochemical LLC                                               | 29/07/2019 | 3856134 | 19865136.6 |        |
| 3856156 | Deutsches Zentrum für Neurodegenerative Erkrankungen e.V. (DZNE)         | 30/09/2019 | 3856156 | 19790145.7 |        |
|         | Medizinische Hochschule Hannover (MHH)                                   |            |         |            |        |
| 3856268 | Becton, Dickinson and Company                                            | 23/09/2019 | 3856268 | 19782874.2 |        |
| 3857115 | VALEO VISION                                                             | 23/09/2019 | 3857115 | 19769820.2 | French |
| 3857448 | Sony Interactive Entertainment Inc.                                      | 23/09/2019 | 3857448 | 19868095.1 |        |
| 3857596 | General Electric Company                                                 | 23/09/2019 | 3857596 | 19865413.9 |        |
| 3857621 | Merck Patent GmbH                                                        | 23/09/2019 | 3857621 | 19769818.6 | German |
| 3857983 | Panasonic Intellectual Property Corporation of America                   | 26/09/2018 | 3857983 | 18935613.2 |        |
| 3858127 | Techtronic Cordless GP                                                   | 30/06/2017 | 3858127 | 21163720.2 |        |
| 3858264 | Goodman Co., Ltd.                                                        | 25/12/2018 | 3858264 | 21155049.6 |        |
| 3858431 | Oticon Medical A/S                                                       | 20/01/2021 | 3858431 | 21152525.8 |        |
| 3858452 | DIC Corporation                                                          | 27/09/2019 | 3858452 | 19866144.9 |        |
| 3858859 | Bristol-Myers Squibb Company                                             | 14/07/2016 | 3858859 | 20214749.2 |        |
| 3859195 | Kitz Corporation                                                         | 01/11/2019 | 3859195 | 19879986.8 |        |
| 3859312 | Eagle Industry Co., Ltd.                                                 | 26/09/2019 | 3859312 | 19865096.2 |        |
| 3859876 | HongKong Fingu Development Company Limited                               | 29/12/2018 | 3859876 | 18935679.3 |        |
| 3860302 | Airbus Defence and Space GmbH                                            | 27/01/2021 | 3860302 | 21153745.1 |        |
| 3860673 | Solvantum Intellectual Properties Company                                | 27/09/2019 | 3860673 | 19790915.3 |        |
| 3860682 | Takeda Pharmaceutical Company Limited                                    | 24/09/2019 | 3860682 | 19783822.0 |        |
| 3861486 | International Business Machines Corporation                              | 24/09/2019 | 3861486 | 19783229.8 |        |
| 3861939 | DePuy Synthes Products, Inc.                                             | 09/02/2021 | 3861939 | 21155926.5 |        |
| 3862299 | TRANSNORM SYSTEM GmbH                                                    | 20/01/2021 | 3862299 | 21152636.3 |        |
| 3862961 | Visa Europe Limited                                                      | 30/09/2014 | 3862961 | 21160069.7 |        |
| 3863014 | GSI Technology Inc.                                                      | 05/02/2021 | 3863014 | 21155509.9 |        |
| 3863035 | Carrier Corporation                                                      | 04/02/2021 | 3863035 | 21155313.6 |        |
| 3863305 | Sivantos Pte. Ltd.                                                       | 12/01/2021 | 3863305 | 21151047.4 | German |
| 3863319 | Sharp Kabushiki Kaisha                                                   | 24/09/2019 | 3863319 | 19864743.0 |        |
| 3863331 | HUAWEI TECHNOLOGIES CO., LTD.                                            | 28/08/2013 | 3863331 | 20214310.3 |        |
| 3864725 | Lumenis Ltd                                                              | 25/09/2019 | 3864725 | 19795361.5 |        |
| 3864902 | Qualcomm Incorporated                                                    | 17/09/2019 | 3864902 | 19780465.1 |        |
| 3866378 | Nokia Technologies Oy                                                    | 04/02/2021 | 3866378 | 21155127.0 |        |
| 3867491 | Oceaneering International, Inc.                                          | 19/12/2019 | 3867491 | 19905873.6 |        |
| 3867879 | Oracle International Corporation                                         | 21/10/2019 | 3867879 | 19801642.0 |        |
| 3869854 | Huawei Technologies Co., Ltd.                                            | 06/11/2019 | 3869854 | 19881089.7 |        |
| 3871063 | Samsung Electronics Co., Ltd.                                            | 12/12/2019 | 3871063 | 19897238.2 |        |
| 3873791 | Deere & Company                                                          | 18/10/2019 | 3873791 | 19791213.2 | German |
| 3874188 | Crane ChemPharma & Energy Corp.                                          | 30/10/2019 | 3874188 | 19880397.5 |        |
| 3875709 | Max Co., Ltd.                                                            | 09/02/2021 | 3875709 | 21156028.9 |        |
| 3876740 | Chr. Hansen A/S                                                          | 08/11/2019 | 3876740 | 19798650.8 |        |
| 3876836 | INRIA - Institut National de Recherche en Informatique et en Automatique | 05/11/2019 | 3876836 | 19802108.1 | French |
| 3879080 | RTX Corporation                                                          | 12/03/2021 | 3879080 | 21162350.9 |        |
| 3879449 | Samsung Electronics Co., Ltd.                                            | 16/08/2019 | 3879449 | 19899784.3 |        |
| 3879483 | CANON KABUSHIKI KAISHA                                                   | 03/03/2021 | 3879483 | 21160534.0 |        |
| 3880025 | NIKE Innovate C.V.                                                       | 14/11/2019 | 3880025 | 19817869.1 |        |
| 3880583 | Franklin Fueling Systems, LLC                                            | 12/11/2019 | 3880583 | 19884304.7 |        |
| 3881220 | SEA.AI GmbH                                                              | 27/09/2019 | 3881220 | 19782538.3 |        |
| 3881221 | SEA.AI GmbH                                                              | 27/09/2019 | 3881221 | 19782539.1 |        |
| 3882066 | Inalfa Roof Systems Group B.V.                                           | 18/03/2020 | 3882066 | 20163957.2 |        |
| 3882153 | Hamilton Sundstrand Corporation                                          | 16/03/2021 | 3882153 | 21162747.6 |        |
| 3883002 | Samsung Display Co., Ltd.                                                | 18/03/2021 | 3883002 | 21163387.0 |        |
| 3883681 | South Wales Minerals & Mining Ltd                                        | 19/11/2019 | 3883681 | 19809584.6 |        |
| 3883877 | Liebherr-Components Biberach GmbH                                        | 16/12/2019 | 3883877 | 19824295.0 | German |
| 3884370 | Genesys Cloud Services, Inc.                                             | 19/11/2018 | 3884370 | 18940603.6 |        |

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| 3885493 | Komatsu Ltd.                                                          | 19/11/2019 | 3885493 | 19915107.7 |        |
| 3885993 | Intel Corporation                                                     | 19/11/2020 | 3885993 | 20208594.0 |        |
| 3886082 | Samsung Display Co., Ltd.                                             | 25/03/2021 | 3886082 | 21165021.3 |        |
| 3886134 | TE Connectivity Germany GmbH                                          | 24/03/2021 | 3886134 | 21164444.8 |        |
| 3886285 | Telia Company AB                                                      | 17/03/2017 | 3886285 | 21174230.9 |        |
| 3886642 | ROLEX SA                                                              | 25/11/2019 | 3886642 | 19805721.8 | French |
| 3886714 | Accuray LLC                                                           | 25/11/2019 | 3886714 | 19824059.0 |        |
| 3887212 | Samsung Electronics Co., Ltd.                                         | 27/12/2019 | 3887212 | 19907151.5 |        |
| 3887419 | Adler Pelzer Holding GmbH                                             | 11/11/2019 | 3887419 | 19804674.0 | German |
| 3887617 | PERI SE                                                               | 06/11/2019 | 3887617 | 19804650.0 |        |
| 3888855 | Seiko Epson Corporation                                               | 18/03/2021 | 3888855 | 21163506.5 |        |
| 3889894 | Siemens Healthineers AG                                               | 01/04/2020 | 3889894 | 20167487.6 |        |
| 3890452 | Samsung Display Co., Ltd.                                             | 30/03/2021 | 3890452 | 21166106.1 |        |
| 3890749 | Sumitomo Pharma America, Inc.                                         | 04/12/2019 | 3890749 | 19892691.7 |        |
| 3890886 | Integenx, Inc.                                                        | 04/12/2019 | 3890886 | 19828438.2 |        |
| 3890924 | HYTORC Division UNEX Corporation                                      | 04/12/2019 | 3890924 | 19886044.7 |        |
| 3892310 | Solventum Intellectual Properties Company                             | 14/09/2016 | 3892310 | 21158749.8 |        |
| 3893041 | Magic Leap, Inc.                                                      | 21/12/2017 | 3893041 | 21175865.1 |        |
| 3893189 | Panasonic Intellectual Property Corporation of America                | 04/09/2019 | 3893189 | 19892051.4 |        |
| 3893199 | CANON KABUSHIKI KAISHA                                                | 01/04/2021 | 3893199 | 21166653.2 |        |
| 3893496 | Ricoh Company, Ltd.                                                   | 07/04/2021 | 3893496 | 21167154.0 |        |
| 3893735 | AirStrip Operations, LLC                                              | 29/08/2019 | 3893735 | 19895296.2 |        |
| 3894270 | Wisk Aero LLC                                                         | 12/12/2019 | 3894270 | 19894741.8 |        |
| 3894595 | Lexogen GmbH                                                          | 13/12/2019 | 3894595 | 19816800.7 |        |
| 3895170 | Seegene, Inc.                                                         | 13/12/2019 | 3895170 | 19895176.6 |        |
| 3895615 | Tianjin Sunrise Technologies Development Co., Ltd.                    | 16/12/2019 | 3895615 | 19895324.2 |        |
| 3895907 | BRIDGESTONE CORPORATION                                               | 08/07/2019 | 3895907 | 19896492.6 |        |
| 3896230 | Komatsu Ltd.                                                          | 02/04/2020 | 3896230 | 20783060.5 |        |
| 3896701 | Shanghai United Imaging Healthcare Co., Ltd.                          | 02/12/2019 | 3896701 | 19896250.8 |        |
| 3896876 | Datang Mobile Communications Equipment Co., Ltd.                      | 11/09/2019 | 3896876 | 19895069.3 |        |
| 3897776 | Levity Products, Inc.                                                 | 20/12/2019 | 3897776 | 19897939.5 |        |
| 3898169 | Rollepaal Pipe Extrusion Technology B.V.                              | 20/12/2019 | 3898169 | 19831937.8 |        |
| 3898239 | Bundesdruckerei GmbH                                                  | 19/12/2019 | 3898239 | 19831711.7 | German |
| 3899211 | GKN Aerospace Sweden AB                                               | 20/12/2019 | 3899211 | 19835413.6 |        |
| 3899678 | Wago Verwaltungsgesellschaft mbH                                      | 20/12/2019 | 3899678 | 19832540.9 | German |
| 3899712 | Samsung Electronics Co., Ltd.                                         | 09/01/2020 | 3899712 | 20791749.3 |        |
| 3899882 | Schlage Lock Company LLC                                              | 20/12/2019 | 3899882 | 19900429.2 |        |
| 3900221 | Hughes Network Systems, LLC                                           | 19/12/2019 | 3900221 | 19853249.1 |        |
| 3900328 | Warner Bros. Entertainment Inc.                                       | 19/12/2019 | 3900328 | 19897937.9 |        |
| 3900805 | General Electric Renovables España S.L.                               | 24/04/2020 | 3900805 | 20171381.5 |        |
| 3902106 | NIPPON STEEL CORPORATION                                              | 17/12/2019 | 3902106 | 19898326.4 |        |
| 3902123 | NIPPON STEEL CORPORATION                                              | 17/12/2019 | 3902123 | 19900219.7 |        |
| 3902239 | ZTE Corporation                                                       | 16/12/2019 | 3902239 | 19900957.2 |        |
| 3903705 | Shanghai Microport Ep Medtech Co., Ltd.                               | 15/11/2019 | 3903705 | 19903360.6 |        |
| 3904079 | LINTEC CORPORATION                                                    | 25/12/2019 | 3904079 | 19902003.3 |        |
| 3904536 | Adaptive Biotechnologies Corporation<br>Fred Hutchinson Cancer Center | 07/12/2012 | 3904536 | 21163802.8 |        |
| 3905518 | Analog Devices, Inc.                                                  | 14/04/2021 | 3905518 | 21168262.0 |        |
| 3905817 | Huawei Technologies Co. Ltd.                                          | 10/01/2020 | 3905817 | 20738433.0 |        |
| 3907161 | KRONES AG                                                             | 06/03/2020 | 3907161 | 21171577.6 | German |
| 3907234 | Levena Biopharma Co., Ltd.                                            | 26/06/2019 | 3907234 | 19918805.3 |        |
| 3907245 | LG Chem, Ltd.                                                         | 03/11/2020 | 3907245 | 20898737.0 |        |
| 3907449 | HAIER SMART HOME CO., LTD.<br>QINGDAO HAIER REFRIGERATOR CO., LTD.    | 10/09/2019 | 3907449 | 19906715.8 |        |
| 3907459 | Valeo Autosystemy SP. Z.O.O.                                          | 04/05/2020 | 3907459 | 20461532.2 |        |
| 3907789 | LG Energy Solution, Ltd.                                              | 03/09/2020 | 3907789 | 20860071.8 |        |
| 3908239 | Smartlens, Inc.                                                       | 10/01/2020 | 3908239 | 20738775.4 |        |

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| 3908406 | Metso Finland Oy                                                                              | 11/01/2019 | 3908406 | 19908422.9 |        |
| 3908409 | ERRETRE S.R.L.                                                                                | 13/12/2019 | 3908409 | 19835500.0 |        |
| 3908876 | Magic Leap, Inc.                                                                              | 10/01/2020 | 3908876 | 20738194.8 |        |
| 3909174 | QUALCOMM INCORPORATED                                                                         | 09/01/2020 | 3909174 | 20704137.7 |        |
| 3909283 | Apple Inc.                                                                                    | 06/01/2020 | 3909283 | 20702962.0 |        |
| 3910975 | Tencent Technology (Shenzhen) Company Limited                                                 | 18/12/2019 | 3910975 | 19909154.7 |        |
| 3912193 | Microsoft Technology Licensing, LLC                                                           | 04/01/2020 | 3912193 | 20702954.7 |        |
| 3912368 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.                          | 14/01/2020 | 3912368 | 20700303.9 |        |
| 3912414 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                          | 15/02/2019 | 3912414 | 19915307.3 |        |
| 3912553 | ResMed Sensor Technologies Limited                                                            | 19/09/2013 | 3912553 | 21162779.9 |        |
| 3912646 | INNOTIER Limited                                                                              | 22/11/2020 | 3912646 | 20209103.9 |        |
| 3913148 | Deere & Company                                                                               | 22/04/2021 | 3913148 | 21169771.9 |        |
| 3913733 | Milwaukee Electric Tool Corporation                                                           | 23/03/2018 | 3913733 | 21171192.4 |        |
| 3914146 | HAAG-STREIT AG                                                                                | 26/03/2019 | 3914146 | 19714386.0 |        |
| 3914645 | ABU DHABI POLYMERS CO. LTD (BOROUGE) - Sole Proprietorship L.L.C. Borealis GmbH               | 24/01/2020 | 3914645 | 20701472.1 |        |
| 3914654 | Société BIC                                                                                   | 24/01/2020 | 3914654 | 20701085.1 |        |
| 3914830 | Tigercat Industries Inc.                                                                      | 21/01/2020 | 3914830 | 20744249.2 |        |
| 3914844 | Airbus Operations Limited                                                                     | 17/06/2020 | 3914844 | 20734334.4 |        |
| 3915052 | DeepMind Technologies Limited                                                                 | 23/01/2020 | 3915052 | 20701973.8 |        |
| 3915059 | DeepMind Technologies Limited                                                                 | 23/01/2020 | 3915059 | 20701748.4 |        |
| 3915169 | Huawei Technologies Co., Ltd.                                                                 | 25/02/2019 | 3915169 | 19708050.0 |        |
| 3915526 | Howmedica Osteonics Corp.                                                                     | 28/04/2021 | 3915526 | 21171007.4 |        |
| 3916033 | Henkel AG & Co. KGaA                                                                          | 28/05/2020 | 3916033 | 20176983.3 |        |
| 3916739 | State Atomic Energy Corporation "Rosatom" on Behalf of The Russian Federation                 | 29/12/2018 | 3916739 | 18941754.6 |        |
| 3916865 | LG Energy Solution, Ltd.                                                                      | 11/08/2020 | 3916865 | 20878093.2 |        |
| 3917222 | Huawei Technologies Co., Ltd.                                                                 | 14/02/2020 | 3917222 | 20755947.7 |        |
| 3917598 | Massachusetts Institute of Technology The Brigham and Women's Hospital, Inc. Novo Nordisk A/S | 31/01/2020 | 3917598 | 20708954.1 |        |
| 3918623 | DH Technologies Development Pte. Ltd.                                                         | 31/01/2020 | 3918623 | 20704085.8 |        |
| 3918749 | Knectiq Inc.                                                                                  | 28/01/2020 | 3918749 | 20796301.8 |        |
| 3918898 | Horsch Maschinen GmbH                                                                         | 28/05/2021 | 3918898 | 21176457.6 | German |
| 3920340 | Rosenberger Hochfrequenztechnik GmbH & Co. KG                                                 | 04/06/2020 | 3920340 | 20178237.2 | German |
| 3921061 | Donaldson Company, Inc.                                                                       | 03/02/2020 | 3921061 | 20709829.4 |        |
| 3921465 | PPG Industries Ohio Inc.                                                                      | 07/02/2020 | 3921465 | 20714314.0 |        |
| 3921523 | BITZER Kühlmaschinenbau GmbH                                                                  | 30/01/2020 | 3921523 | 20703191.5 | German |
| 3921533 | Woodward, Inc.                                                                                | 07/02/2020 | 3921533 | 20711682.3 |        |
| 3921548 | Compressor Controls LLC                                                                       | 06/02/2020 | 3921548 | 20709895.5 |        |
| 3921786 | Hypertherm, Inc.                                                                              | 07/02/2020 | 3921786 | 20710368.0 |        |
| 3922161 | Karl Storz SE & Co. KG                                                                        | 28/05/2021 | 3922161 | 21176684.5 | German |
| 3922802 | Cardtronics USA, Inc.                                                                         | 28/03/2021 | 3922802 | 21165423.1 |        |
| 3922883 | Jatco Ltd.                                                                                    | 26/11/2019 | 3922883 | 19914197.9 |        |
| 3923224 | Mastercard International Incorporated                                                         | 11/06/2020 | 3923224 | 20179561.4 |        |
| 3923345 | BOE Technology Group Co., Ltd. Hefei BOE Optoelectronics Technology Co., Ltd.                 | 14/03/2017 | 3923345 | 21187950.7 |        |
| 3923831 | Paragon 28, Inc.                                                                              | 13/02/2020 | 3923831 | 20755034.4 |        |
| 3925219 | Tencent America LLC                                                                           | 03/02/2021 | 3925219 | 21756824.5 |        |
| 3925498 | Miele & Cie. KG                                                                               | 07/06/2018 | 3925498 | 21184208.3 | German |
| 3925637 | Abyrx, Inc.                                                                                   | 05/09/2012 | 3925637 | 21189176.7 |        |
| 3926086 | Nitto Advanced Film Gronau GmbH                                                               | 26/05/2021 | 3926086 | 21175899.0 | German |
| 3926103 | Sumitomo Heavy Industries, Ltd.                                                               | 13/02/2020 | 3926103 | 20756298.4 |        |
| 3926386 | Nanolive SA                                                                                   | 18/09/2015 | 3926386 | 21186844.3 |        |

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| 3927480 | Hyperion Materials & Technologies (Sweden) AB                      | 14/02/2020 | 3927480 | 20705199.6 |        |
| 3928186 | Microsoft Technology Licensing, LLC                                | 30/01/2020 | 3928186 | 20708005.2 |        |
| 3928348 | Merck Patent GmbH                                                  | 20/02/2020 | 3928348 | 20707036.8 |        |
| 3928832 | RaySearch Laboratories AB                                          | 23/06/2020 | 3928832 | 20181570.1 |        |
| 3929021 | SANYO Electric Co., Ltd.                                           | 09/12/2019 | 3929021 | 19916528.3 |        |
| 3929725 | Samsung Electronics Co., Ltd.                                      | 10/02/2021 | 3929725 | 21156290.5 |        |
| 3930219 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.               | 08/03/2019 | 3930219 | 19919179.2 |        |
| 3930278 | Huawei Technologies Co., Ltd.                                      | 28/02/2020 | 3930278 | 20773203.3 |        |
| 3930961 | Tap Drive AS                                                       | 26/02/2020 | 3930961 | 20718842.6 |        |
| 3931091 | Pratt & Whitney Canada Corp.                                       | 10/12/2019 | 3931091 | 19917934.2 |        |
| 3931099 | Pratt & Whitney Canada Corp.                                       | 10/12/2019 | 3931099 | 19917756.9 |        |
| 3931653 | Siemens Aktiengesellschaft                                         | 23/03/2020 | 3931653 | 20718155.3 | German |
| 3931763 | Microsoft Technology Licensing, LLC                                | 20/02/2020 | 3931763 | 20712747.3 |        |
| 3932063 | InterDigital VC Holdings, Inc.                                     | 25/02/2020 | 3932063 | 20713466.9 |        |
| 3932702 | Skoda Auto a.s.                                                    | 25/06/2021 | 3932702 | 21020330.3 | German |
| 3933103 | National University Corporation Hokkaido University                | 26/02/2020 | 3933103 | 20763680.4 |        |
| 3933973 | Daicel Corporation<br>WASEDA UNIVERSITY<br>Zeon Corporation        | 25/02/2020 | 3933973 | 20762187.1 |        |
| 3935266 | Industrom Power, LLC                                               | 05/03/2020 | 3935266 | 20767439.1 |        |
| 3935771 | Samsung Electronics Co., Ltd.                                      | 29/12/2020 | 3935771 | 20908699.0 |        |
| 3935891 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                          | 18/02/2020 | 3935891 | 20708707.3 |        |
| 3936042 | Tanita Corporation                                                 | 04/03/2020 | 3936042 | 20765506.9 |        |
| 3936574 | E. & J. Gallo Winery                                               | 28/06/2012 | 3936574 | 21189535.4 |        |
| 3936836 | TECNO S.P.A. SOCIETA' BENEFIT                                      | 07/07/2020 | 3936836 | 20425024.5 |        |
| 3937066 | KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH                        | 07/07/2020 | 3937066 | 20184491.7 |        |
| 3937072 | Tencent Technology (Shenzhen) Company Limited                      | 02/03/2020 | 3937072 | 20767030.8 |        |
| 3937124 | Tencent Technology (Shenzhen) Company Limited                      | 13/02/2020 | 3937124 | 20767229.6 |        |
| 3937379 | Huawei Technologies Co., Ltd.                                      | 23/04/2020 | 3937379 | 20795657.4 |        |
| 3938112 | NTP Nano Tech Projects S.r.l.                                      | 02/03/2020 | 3938112 | 20708676.0 |        |
| 3938163 | Menneglier, Jean-Mathieu                                           | 13/03/2020 | 3938163 | 20709617.3 | French |
| 3938210 | Wilsonart LLC                                                      | 13/03/2020 | 3938210 | 20772672.0 |        |
| 3938616 | NCS Multistage Inc.                                                | 24/01/2020 | 3938616 | 20769921.6 |        |
| 3938819 | Apple Inc.                                                         | 15/09/2020 | 3938819 | 20781216.5 |        |
| 3939006 | Ikerian AG                                                         | 12/03/2020 | 3939006 | 20708523.4 |        |
| 3939030 | Magic Leap, Inc.                                                   | 26/02/2020 | 3939030 | 20770244.0 |        |
| 3940327 | QINGDAO HAIER REFRIGERATOR CO., LTD.<br>HAIER SMART HOME CO., LTD. | 10/09/2019 | 3940327 | 19918981.2 |        |
| 3941251 | Imperial Tobacco Limited                                           | 13/03/2020 | 3941251 | 20715691.0 |        |
| 3941393 | MDB Texinov<br>Deltaval                                            | 05/03/2020 | 3941393 | 20725833.6 | French |
| 3941552 | Phillips-Medisize A/S                                              | 23/03/2020 | 3941552 | 20711626.0 |        |
| 3941862 | Plockmatic International AB                                        | 20/03/2020 | 3941862 | 20714955.0 |        |
| 3941883 | Glaston Finland Oy                                                 | 18/03/2020 | 3941883 | 20773742.0 |        |
| 3942124 | Siemens Gamesa Renewable Energy A/S                                | 27/03/2020 | 3942124 | 20718198.3 |        |
| 3942460 | Abiomed, Inc.                                                      | 20/03/2020 | 3942460 | 20719037.2 |        |
| 3942787 | Numeracle, Inc.                                                    | 17/03/2020 | 3942787 | 20773829.5 |        |
| 3942828 | InterDigital CE Patent Holdings, SAS                               | 25/02/2020 | 3942828 | 20705381.0 |        |
| 3943297 | Mitsubishi Chemical Corporation                                    | 18/03/2020 | 3943297 | 20777028.0 |        |
| 3943343 | Volvo Car Corporation                                              | 23/07/2020 | 3943343 | 20187473.2 |        |
| 3943469 | Rolls-Royce Corporation                                            | 01/07/2021 | 3943469 | 21183286.0 |        |
| 3944158 | Volkswagen Aktiengesellschaft                                      | 21/07/2020 | 3944158 | 20187076.3 | German |
| 3944178 | Bancontact Payconiq Company                                        | 30/12/2014 | 3944178 | 21194878.1 |        |
| 3945268 | Lerchner Alternative Heizsysteme GmbH                              | 16/06/2021 | 3945268 | 21179689.1 | German |

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| 3945355 | Google LLC                                        | 30/04/2021 | 3945355 | 21171595.8 | German |
| 3945703 | Siemens Mobility GmbH                             | 29/07/2020 | 3945703 | 20188356.8 |        |
| 3946183 | Tearclear Corp.                                   | 27/03/2020 | 3946183 | 20777301.1 |        |
| 3947024 | Kempower Oyj                                      | 25/02/2020 | 3947024 | 20709640.5 |        |
| 3947334 | Givaudan SA                                       | 27/03/2020 | 3947334 | 20714602.8 |        |
| 3948192 | Signify Holding B.V.                              | 20/03/2020 | 3948192 | 20712962.8 |        |
| 3948675 | Snap Inc.                                         | 27/03/2020 | 3948675 | 20713058.4 |        |
| 3948858 | Telefonaktiebolaget LM Ericsson (publ)            | 27/03/2020 | 3948858 | 20715335.4 |        |
| 3948886 | CathWorks Ltd.                                    | 26/03/2020 | 3948886 | 20784469.7 |        |
| 3948955 | HRL Laboratories, LLC                             | 27/01/2020 | 3948955 | 20790615.7 |        |
| 3949412 | QUALCOMM Incorporated                             | 19/03/2020 | 3949412 | 20720572.5 |        |
| 3949578 | Lenovo (Beijing) Limited                          | 04/04/2019 | 3949578 | 19923425.3 |        |
| 3949650 | Telefonaktiebolaget LM Ericsson (publ)            | 24/03/2020 | 3949650 | 20714975.8 |        |
| 3949980 | Griva, Vassiliki                                  | 03/08/2021 | 3949980 | 21189331.8 |        |
| 3950285 | Tsudakoma Kogyo Kabushiki Kaisha                  | 29/06/2021 | 3950285 | 21182435.4 |        |
| 3951083 | Volvo Construction Equipment AB                   | 05/04/2019 | 3951083 | 19923408.9 | German |
| 3951566 | BOE Technology Group Co., Ltd.                    | 28/03/2019 | 3951566 | 19861295.4 |        |
|         | Mianyang Boe Optoelectronics Technology Co., Ltd. |            |         |            |        |
| 3951608 | Huawei Technologies Co., Ltd.                     | 28/06/2020 | 3951608 | 20832044.0 |        |
| 3951889 | Toray Industries, Inc.                            | 06/03/2020 | 3951889 | 20778327.5 |        |
| 3952066 | Mitsubishi Electric Corporation                   | 28/03/2019 | 3952066 | 19921895.9 |        |
| 3952101 | Mitsuba Corporation                               | 26/03/2020 | 3952101 | 20778234.3 |        |
| 3952422 | Datang Mobile Communications Equipment Co., Ltd.  | 18/03/2020 | 3952422 | 20777248.4 |        |
| 3952433 | CANON KABUSHIKI KAISHA                            | 13/03/2020 | 3952433 | 20782068.9 |        |
| 3954167 | QUALCOMM Incorporated                             | 28/02/2020 | 3954167 | 20786827.4 |        |
| 3954357 | Dow Toray Co., Ltd.                               | 31/07/2019 | 3954357 | 19924351.0 |        |
| 3954401 | FUJIFILM Corporation                              | 08/04/2020 | 3954401 | 20787695.4 |        |
| 3955175 | KABUSHIKI KAISHA TOSHIBA                          | 17/02/2021 | 3955175 | 21157692.1 |        |
| 3955627 | VIVO MOBILE COMMUNICATION CO., LTD.               | 09/04/2020 | 3955627 | 20787041.1 | German |
| 3955638 | Huawei Technologies Co., Ltd.                     | 08/05/2020 | 3955638 | 20805078.1 |        |
| 3955653 | Huawei Technologies Co. Ltd.                      | 24/04/2020 | 3955653 | 20802588.2 |        |
| 3956501 | Sanko Tekstil Isletmeleri San. Ve Tic. A.S.       | 17/04/2020 | 3956501 | 20718341.9 |        |
| 3956502 | Sanko Tekstil Isletmeleri San. Ve Tic. A.S.       | 17/04/2020 | 3956502 | 20718684.2 |        |
| 3957153 | Deere & Company                                   | 21/07/2021 | 3957153 | 21187032.4 |        |
| 3957448 | Michael Hörauf Maschinenfabrik GmbH u. Co. KG     | 12/08/2021 | 3957448 | 21191133.4 |        |
| 3957694 | Hangzhou First Applied Material Co., Ltd.         | 17/08/2020 | 3957694 | 20934879.6 |        |
| 3957780 | Braskem, S.A.                                     | 29/10/2014 | 3957780 | 21195308.8 |        |
| 3957892 | Jinan Meide Casting Co., Ltd.                     | 25/03/2020 | 3957892 | 20922442.7 |        |
| 3958211 | Google LLC                                        | 09/02/2021 | 3958211 | 21155966.1 |        |
| 3958242 | LG Display Co., Ltd.                              | 23/07/2021 | 3958242 | 21187442.5 |        |
| 3958809 | The Procter & Gamble Company                      | 21/04/2020 | 3958809 | 20723763.7 |        |
| 3959660 | Robert Bosch GmbH                                 | 08/04/2020 | 3959660 | 20717859.1 | German |
| 3959811 | Milwaukee Electric Tool Corporation               | 24/04/2020 | 3959811 | 20794981.9 |        |
| 3959853 | Microsoft Technology Licensing, LLC               | 16/03/2020 | 3959853 | 20717513.4 |        |
| 3960353 | Illinois Tool Works, Inc.                         | 03/07/2018 | 3960353 | 21196706.2 |        |
| 3960407 | HOMAG GmbH                                        | 19/08/2021 | 3960407 | 21192093.9 |        |
| 3961494 | Samsung Electronics Co., Ltd.                     | 10/06/2021 | 3961494 | 21178725.4 |        |
| 3961788 | LG Energy Solution, Ltd.                          | 17/09/2020 | 3961788 | 20868278.1 |        |
| 3962141 | Spreadtrum Communications (Shanghai) Co., Ltd.    | 13/03/2020 | 3962141 | 20793954.7 |        |
| 3963304 | Horiba Instruments Incorporated                   | 29/04/2020 | 3963304 | 20798562.3 |        |
| 3963929 | Nokia Technologies Oy                             | 30/04/2020 | 3963929 | 20723364.4 |        |
| 3964121 | Medit Corp.                                       | 21/05/2020 | 3964121 | 20810303.6 |        |
| 3964637 | LG Electronics Inc.                               | 07/09/2021 | 3964637 | 21195174.4 |        |
| 3964777 | LG Electronics Inc.                               | 02/08/2016 | 3964777 | 21203498.7 |        |
| 3965186 | LG Energy Solution, Ltd.                          | 16/09/2020 | 3965186 | 20870014.6 |        |
| 3965496 | ZTE Corporation                                   | 26/04/2020 | 3965496 | 20798587.0 | German |
| 3965704 | W. L. Gore & Associates, Inc.                     | 10/05/2019 | 3965704 | 19727205.7 |        |



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| 3966647 | Dürr Systems AG                                          | 29/04/2020 | 3966647 | 20726292.4 | German |
| 3966648 | Dürr Systems AG                                          | 29/04/2020 | 3966648 | 20728915.8 | German |
| 3967256 | Covidien LP                                              | 14/09/2021 | 3967256 | 21196716.1 |        |
| 3967411 | iDispense, LLC.                                          | 19/08/2021 | 3967411 | 21192059.0 |        |
| 3967419 | Murata Machinery, Ltd.                                   | 13/03/2020 | 3967419 | 20802640.1 |        |
| 3968213 | Siemens Mobility GmbH                                    | 14/09/2020 | 3968213 | 20195896.4 | German |
| 3968627 | Tencent Technology (Shenzhen) Company Limited            | 21/04/2020 | 3968627 | 20802358.0 |        |
| 3968756 | 80 Acres Urban Agriculture Inc.                          | 13/05/2020 | 3968756 | 20805584.8 |        |
| 3969526 | Dow Silicones Corporation<br>Dow Global Technologies LLC | 09/04/2020 | 3969526 | 20810589.0 |        |
| 3969687 | Zodiac Pool Care Europe                                  | 17/06/2020 | 3969687 | 20743784.9 |        |
| 3970636 | Boston Scientific Limited                                | 17/08/2017 | 3970636 | 21205056.1 |        |
| 3970870 | CB Holding B.V.                                          | 17/09/2021 | 3970870 | 21197485.2 |        |
| 3970931 | SAINT-GOBAIN PLACO                                       | 21/09/2020 | 3970931 | 20306072.8 |        |
| 3971034 | Hyundai Mobis Co., Ltd.                                  | 14/09/2021 | 3971034 | 21196467.1 |        |
| 3971428 | TFXR Property Limited                                    | 16/09/2021 | 3971428 | 21197257.5 |        |
| 3971748 | Cujo LLC                                                 | 13/09/2021 | 3971748 | 21196257.6 |        |
| 3972050 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.  | 24/06/2020 | 3972050 | 20834706.2 |        |
| 3972364 | NTT DOCOMO, INC.                                         | 14/05/2020 | 3972364 | 20806808.0 |        |
| 3972406 | Micropropagation Services (E.M.) Limited                 | 22/05/2020 | 3972406 | 20734797.2 |        |
| 3973418 | Samsung Electronics Co., Ltd.                            | 14/09/2020 | 3973418 | 20863662.1 |        |
| 3973717 | Raytheon Company                                         | 19/03/2020 | 3973717 | 20719285.7 |        |
| 3973931 | Medical College of Wisconsin, Inc.                       | 21/12/2009 | 3973931 | 21189689.9 |        |
| 3974008 | Nikkiso Co., Ltd.                                        | 01/05/2020 | 3974008 | 20810584.1 |        |
| 3974110 | Globe (Jiangsu) Co., Ltd.                                | 21/09/2021 | 3974110 | 21197978.6 |        |
| 3974363 | Nexans                                                   | 24/09/2021 | 3974363 | 21306328.2 | French |
| 3974387 | X-Zell Inc.                                              | 06/03/2017 | 3974387 | 21204853.2 |        |
| 3974914 | The Swatch Group Research and<br>Development Ltd         | 25/09/2020 | 3974914 | 20198502.5 | French |
| 3975274 | United Microelectronics Corp.                            | 27/11/2020 | 3975274 | 20210156.4 |        |
| 3975493 | STMicroelectronics S.r.l.                                | 09/09/2021 | 3975493 | 21195778.2 |        |
| 3975603 | INTEL Corporation                                        | 01/07/2021 | 3975603 | 21183192.0 |        |
| 3976219 | The Filta Group Limited                                  | 27/05/2020 | 3976219 | 20730458.5 |        |
| 3979232 | LG Display Co., Ltd.                                     | 24/11/2017 | 3979232 | 21201663.8 |        |
| 3979616 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.  | 16/09/2020 | 3979616 | 20865492.1 |        |
| 3980319 | Bae Systems Hägglunds Aktiebolag                         | 04/06/2020 | 3980319 | 20818514.0 |        |
| 3980506 | Zephyros, Inc.                                           | 05/06/2020 | 3980506 | 20750412.7 |        |
| 3980603 | Milwaukee Electric Tool Corporation                      | 10/06/2020 | 3980603 | 20822897.3 |        |
| 3980892 | Amazon Technologies, Inc.                                | 15/06/2020 | 3980892 | 20736525.5 |        |
| 3981077 | Hitachi Energy Ltd                                       | 05/06/2020 | 3981077 | 20729791.2 |        |
| 3981311 | Midea Robozone Technology Co., Ltd.                      | 07/04/2020 | 3981311 | 20836105.5 |        |
| 3981350 | Ethicon LLC                                              | 30/01/2018 | 3981350 | 21194071.3 |        |
| 3981365 | Warsaw Orthopedic, Inc.                                  | 08/09/2014 | 3981365 | 21204442.4 |        |
| 3982261 | Huawei Technologies Co., Ltd.                            | 12/06/2020 | 3982261 | 20835421.7 |        |
| 3982450 | Toray Industries, Inc.                                   | 12/05/2020 | 3982450 | 20822660.5 |        |
| 3982472 | LG Energy Solution, Ltd.                                 | 02/09/2020 | 3982472 | 20869562.7 |        |
| 3982617 | Gogo Business Aviation LLC                               | 13/09/2017 | 3982617 | 21211065.4 |        |
| 3982655 | NTT DOCOMO, INC.                                         | 28/04/2020 | 3982655 | 20819209.6 |        |
| 3983696 | Gates Corporation                                        | 12/06/2020 | 3983696 | 20736508.1 |        |
| 3984387 | KT&G Corporation                                         | 16/07/2021 | 3984387 | 21806611.6 |        |
| 3984583 | Su, Chien-Chung                                          | 07/10/2021 | 3984583 | 21201412.0 |        |
| 3984593 | Zhejiang Brainhealth Medical Technology<br>Co., Ltd.     | 16/06/2020 | 3984593 | 20762632.6 |        |
| 3985184 | Komatsu Ltd.                                             | 12/08/2016 | 3985184 | 21211616.4 |        |
| 3985289 | SUMITOMO HEAVY INDUSTRIES,<br>LTD.                       | 05/06/2020 | 3985289 | 20821597.0 |        |
| 3985963 | Argo AI, LLC                                             | 13/10/2021 | 3985963 | 21202398.0 |        |
| 3986370 | Unilever Global IP Limited                               | 16/06/2020 | 3986370 | 20733928.4 |        |
| 3986498 | Fresenius Medical Care Holdings, Inc.                    | 11/06/2020 | 3986498 | 20827952.1 |        |

|         |                                                                                |            |         |            |        |
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| 3986551 | Bristol-Myers Squibb Company                                                   | 16/06/2020 | 3986551 | 20736531.3 |        |
| 3986619 | CEFLA Società Cooperativa                                                      | 22/06/2020 | 3986619 | 20743320.2 |        |
| 3986696 | Peridot Print LLC                                                              | 19/09/2019 | 3986696 | 19945655.9 |        |
| 3987321 | ENI S.p.A.                                                                     | 22/06/2020 | 3987321 | 20743319.4 |        |
| 3987393 | Magic Leap, Inc.                                                               | 05/06/2020 | 3987393 | 20827586.7 |        |
| 3987428 | Microsoft Technology Licensing, LLC                                            | 03/06/2020 | 3987428 | 20747201.0 |        |
| 3987672 | Sony Group Corporation                                                         | 05/05/2020 | 3987672 | 20724092.0 |        |
| 3987888 | BSH Hausgeräte GmbH                                                            | 18/06/2020 | 3987888 | 20733615.7 | German |
| 3988813 | Special Springs S.r.l.                                                         | 11/10/2021 | 3988813 | 21201821.2 |        |
| 3988974 | Accelink Technologies Co., Ltd                                                 | 04/12/2019 | 3988974 | 19934027.4 |        |
| 3989040 | Samsung Electronics Co., Ltd.                                                  | 24/06/2020 | 3989040 | 20832582.9 |        |
| 3989482 | No.ID ehf.                                                                     | 22/10/2021 | 3989482 | 21204346.7 |        |
| 3990238 | Toncelli, Dario                                                                | 23/06/2020 | 3990238 | 20742482.1 |        |
| 3990678 | Picosun Oy                                                                     | 25/06/2019 | 3990678 | 19935416.8 |        |
| 3990989 | ABB Schweiz AG                                                                 | 26/06/2020 | 3990989 | 20745286.3 |        |
| 3991087 | Sony Group Corporation                                                         | 17/06/2020 | 3991087 | 20732908.7 |        |
| 3991382 | Oracle International Corporation                                               | 28/05/2020 | 3991382 | 20733514.2 |        |
| 3991756 | Institute of Nuclear Energy Research,<br>Atomic Energy Council, Executive Yuan | 08/10/2021 | 3991756 | 21201791.7 |        |
| 3993185 | OMRON Corporation                                                              | 28/07/2020 | 3993185 | 20853407.3 |        |
| 3993353 | Nutanix, Inc.                                                                  | 29/10/2021 | 3993353 | 21205634.5 |        |
| 3993557 | Huawei Technologies Co., Ltd.                                                  | 23/07/2020 | 3993557 | 20844491.9 |        |
| 3993586 | LG Electronics Inc.                                                            | 28/06/2019 | 3993586 | 19935607.2 |        |
| 3994239 | Chevron Japan Ltd.<br>Chevron Oronite Company LLC                              | 01/07/2020 | 3994239 | 20737577.5 |        |
| 3994976 | Davydova, Elena                                                                | 06/11/2020 | 3994976 | 20206175.0 |        |
| 3995872 | IMEC VZW<br>Katholieke Universiteit Leuven<br>Universiteit Gent                | 09/11/2021 | 3995872 | 21207039.5 |        |
| 3995971 | Huawei Technologies Co., Ltd.                                                  | 06/05/2020 | 3995971 | 20850639.4 |        |
| 3996048 | Imagination Technologies Limited                                               | 29/09/2021 | 3996048 | 21199851.3 |        |
| 3996100 | Medtronic MiniMed, Inc.                                                        | 05/11/2021 | 3996100 | 21206600.5 |        |
| 3996336 | LG Energy Solution, Ltd.                                                       | 25/09/2020 | 3996336 | 20870249.8 |        |
| 3996756 | Zobebe Holding SpA                                                             | 12/07/2019 | 3996756 | 19742158.9 |        |
| 3996769 | Fresenius Medical Care Deutschland GmbH                                        | 09/07/2020 | 3996769 | 20739946.0 | German |
| 3997252 | Oerlikon Metco (US) Inc.                                                       | 07/07/2020 | 3997252 | 20743558.7 |        |
| 3997564 | Volkswagen Aktiengesellschaft                                                  | 18/06/2020 | 3997564 | 20734862.4 | German |
| 3997911 | Samsung Electronics Co., Ltd.                                                  | 29/09/2020 | 3997911 | 20872272.8 |        |
| 3998425 | Taiheiyo Engineering Corporation                                               | 06/08/2019 | 3998425 | 19940176.1 |        |
| 3998941 | Hamilton Medical AG                                                            | 15/07/2020 | 3998941 | 20742230.4 | German |
| 3998970 | Boston Scientific Scimed, Inc.                                                 | 09/09/2020 | 3998970 | 20775558.8 |        |
| 3999286 | LG Electronics Inc.                                                            | 15/07/2020 | 3999286 | 20839883.4 |        |
| 4000776 | SUMITOMO ELECTRIC INDUSTRIES,<br>LTD.<br>Sumitomo Electric Hardmetal Corp.     | 17/07/2020 | 4000776 | 20839765.3 |        |
| 4000824 | Weber Food Technology SE & Co. KG                                              | 08/11/2021 | 4000824 | 21206830.8 | German |
| 4001315 | Zeon Corporation                                                               | 17/07/2020 | 4001315 | 20844247.5 |        |
| 4002364 | Framvik Produktion AB                                                          | 13/11/2020 | 4002364 | 20207565.1 |        |
| 4002690 | ABLIC Inc.                                                                     | 11/11/2021 | 4002690 | 21207676.4 |        |
| 4002902 | QUALCOMM INCORPORATED                                                          | 01/06/2015 | 4002902 | 22152275.8 |        |
| 4003155 | Canfield Scientific, Incorporated                                              | 02/09/2020 | 4003155 | 20775980.4 |        |
| 4003907 | IonQ, Inc.                                                                     | 24/07/2020 | 4003907 | 20843050.4 |        |
| 4004562 | Waters Technologies Corporation                                                | 27/07/2020 | 4004562 | 20754557.5 |        |
| 4004635 | Bunny Eyez, LLC                                                                | 20/06/2018 | 4004635 | 18905601.3 |        |
| 4004727 | Microsoft Technology Licensing, LLC                                            | 10/06/2020 | 4004727 | 20750536.3 |        |
| 4004880 | Magnetic Autocontrol GmbH                                                      | 26/06/2020 | 4004880 | 20735355.8 | German |
| 4006391 | Otto Egelhof GmbH & Co. KG                                                     | 20/10/2021 | 4006391 | 21203742.8 | German |
| 4006554 | SYSMEX CORPORATION                                                             | 26/11/2021 | 4006554 | 21210746.0 |        |
| 4006708 | Microsoft Technology Licensing, LLC                                            | 27/03/2017 | 4006708 | 22150554.8 |        |
| 4006905 | Changxin Memory Technologies, Inc.                                             | 30/06/2021 | 4006905 | 21856926.7 |        |
| 4007213 | ZTE Corporation                                                                | 23/07/2020 | 4007213 | 20851744.1 |        |

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| 4007360 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 05/08/2019 | 4007360 | 19940601.8 |        |
| 4008121 | Apple Inc.                                           | 06/09/2019 | 4008121 | 19944531.3 |        |
| 4009094 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 28/07/2020 | 4009094 | 20850021.5 |        |
| 4009228 | Aptiv Technologies AG                                | 02/12/2020 | 4009228 | 20211232.2 |        |
| 4009441 | Trimble Inc.                                         | 19/11/2021 | 4009441 | 21209194.6 |        |
| 4010216 | Siemens Aktiengesellschaft                           | 02/09/2020 | 4010216 | 20771474.2 | German |
| 4010233 | Hitachi Rail STS S.p.A.                              | 09/07/2020 | 4010233 | 20750360.8 |        |
| 4010638 | Eisenmann GmbH                                       | 03/08/2020 | 4010638 | 20753703.6 | German |
| 4010641 | Samsung Electronics Co., Ltd.                        | 10/12/2020 | 4010641 | 20900498.5 |        |
| 4010763 | UI Technologies, Inc.                                | 08/05/2021 | 4010763 | 21754885.8 |        |
| 4011012 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 17/09/2019 | 4011012 | 19813635.0 |        |
| 4012606 | ZTE Corporation                                      | 07/08/2020 | 4012606 | 20850349.0 |        |
| 4012713 | BostonGene Corporation                               | 12/06/2018 | 4012713 | 22155044.5 |        |
| 4012804 | LG ENERGY SOLUTION, LTD.                             | 11/09/2020 | 4012804 | 20862757.0 |        |
| 4012820 | SANYO Electric Co., Ltd.                             | 20/07/2020 | 4012820 | 20850251.8 |        |
| 4013537 | NOV PROCESS & FLOW TECHNOLOGIES US, INC.             | 13/08/2020 | 4013537 | 20761970.1 |        |
| 4013731 | Yara International ASA                               | 12/08/2020 | 4013731 | 20750561.1 |        |
| 4014093 | GENTEX CORPORATION                                   | 11/09/2020 | 4014093 | 20863694.4 |        |
| 4014297 | Gbatteries Energy Canada Inc.                        | 23/09/2020 | 4014297 | 20867530.6 |        |
| 4014813 | LG Electronics Inc.                                  | 06/08/2020 | 4014813 | 20851475.2 |        |
| 4015382 | B/E Aerospace, Inc.                                  | 15/12/2021 | 4015382 | 21214885.2 |        |
| 4016746 | INTEL Corporation                                    | 23/09/2021 | 4016746 | 21198640.1 |        |
| 4017379 | Boston Scientific Scimed Inc.                        | 20/08/2020 | 4017379 | 20765417.9 |        |
| 4018730 | QUALCOMM INCORPORATED                                | 19/08/2020 | 4018730 | 20764890.8 |        |
| 4019560 | Hansol Chemical Co., Ltd.                            | 20/08/2020 | 4019560 | 20855601.9 |        |
|         | Samsung SDI Co., Ltd.                                |            |         |            |        |
| 4020023 | Optotune Switzerland AG                              | 22/12/2021 | 4020023 | 21217147.4 |        |
| 4020058 | TriLite Technologies GmbH                            | 23/12/2020 | 4020058 | 20216834.0 |        |
| 4020350 | Panasonic Intellectual Property Management Co., Ltd. | 21/07/2020 | 4020350 | 20855408.9 |        |
| 4022349 | Centiloc                                             | 26/08/2020 | 4022349 | 20775040.7 | French |
| 4022823 | QUALCOMM Incorporated                                | 06/08/2020 | 4022823 | 20761483.5 |        |
| 4022964 | Huawei Technologies Co., Ltd.                        | 28/08/2020 | 4022964 | 20856446.8 |        |
| 4024447 | NXP USA, Inc.                                        | 22/11/2021 | 4024447 | 21209597.0 |        |
| 4024613 | THALES                                               | 06/12/2021 | 4024613 | 21212463.0 | French |
| 4024793 | Huawei Technologies Co., Ltd.                        | 17/09/2020 | 4024793 | 20864890.7 |        |
| 4024830 | Huawei Technologies Co. Ltd.                         | 19/05/2020 | 4024830 | 20868264.1 |        |
| 4025592 | Protagonist Therapeutics, Inc.                       | 03/09/2020 | 4025592 | 20860676.4 |        |
| 4025612 | Scancell Limited                                     | 02/09/2020 | 4025612 | 20767753.5 |        |
| 4025747 | Ash & Lacy Holdings Limited                          | 04/09/2020 | 4025747 | 20768670.0 |        |
| 4025821 | Microsoft Technology Licensing, LLC                  | 02/09/2020 | 4025821 | 20771956.8 |        |
| 4026141 | CareFusion 303, Inc.                                 | 02/09/2020 | 4026141 | 20772177.0 |        |
| 4026563 | Yeda Research and Development Co. Ltd                | 16/06/2016 | 4026563 | 21200756.1 |        |
| 4026667 | Panasonic Intellectual Property Management Co., Ltd. | 10/07/2020 | 4026667 | 20861840.5 |        |
| 4026950 | Zhou, Zhaodi                                         | 20/05/2020 | 4026950 | 20860285.4 |        |
| 4027452 | Rockwell Collins, Inc.                               | 05/01/2022 | 4027452 | 22150322.0 |        |
| 4027775 | Universität Rostock                                  | 09/09/2020 | 4027775 | 20771807.3 | German |
| 4027824 | Schuberth GmbH                                       | 10/09/2020 | 4027824 | 20774903.7 | German |
| 4027908 | Cilag GmbH International                             | 15/09/2021 | 4027908 | 21773889.7 |        |
| 4028696 | Treau, Inc.                                          | 10/09/2020 | 4028696 | 20863262.0 |        |
| 4028700 | Carrier Corporation                                  | 11/09/2020 | 4028700 | 20780515.1 |        |
| 4028717 | Detnet South Africa (Pty) Ltd                        | 04/09/2020 | 4028717 | 20793229.4 |        |
| 4028751 | Cerillo, Inc.                                        | 09/09/2020 | 4028751 | 20864236.3 |        |
| 4028787 | Cedars-Sinai Medical Center                          | 10/09/2020 | 4028787 | 20863427.9 |        |
| 4028797 | SERCEL                                               | 11/09/2020 | 4028797 | 20786586.6 |        |
| 4028829 | Hyperlight Corporation                               | 09/09/2020 | 4028829 | 20863549.0 |        |
| 4029022 | Illumina, Inc.                                       | 11/09/2020 | 4029022 | 20780856.9 |        |

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| 4029236 | QUALCOMM Incorporated                                                                                                         | 10/08/2020 | 4029236 | 20761484.3 |        |
| 4029543 | Medtronic MiniMed, Inc.                                                                                                       | 05/01/2022 | 4029543 | 22150318.8 |        |
| 4030607 | Eaton Intelligent Power Limited                                                                                               | 14/01/2022 | 4030607 | 22151626.3 |        |
| 4030937 | Philip Morris Products, S.A.                                                                                                  | 17/09/2020 | 4030937 | 20771876.8 |        |
| 4030951 | Decathlon                                                                                                                     | 03/09/2020 | 4030951 | 20764396.6 | French |
| 4031012 | Bard Access Systems, Inc.                                                                                                     | 23/09/2020 | 4031012 | 20872368.4 |        |
| 4031087 | Invictus Medical, Inc.                                                                                                        | 14/09/2020 | 4031087 | 20863580.5 |        |
| 4031302 | ThyssenKrupp Steel Europe AG                                                                                                  | 08/09/2020 | 4031302 | 20771250.6 | German |
| 4031775 | Clark, Kyle                                                                                                                   | 16/09/2020 | 4031775 | 20864770.1 |        |
| 4031964 | Microsoft Technology Licensing, LLC                                                                                           | 20/06/2020 | 4031964 | 20739537.7 |        |
| 4032502 | Highlife SAS                                                                                                                  | 30/06/2011 | 4032502 | 22160278.2 |        |
| 4032503 | Highlife SAS                                                                                                                  | 30/06/2011 | 4032503 | 22160296.4 |        |
| 4032548 | Beijing Jiaotong University<br>Beijing Zhifei Lvzhu Biopharmaceutical<br>Co. Ltd                                              | 11/08/2021 | 4032548 | 21860139.1 |        |
| 4033298 | LG Innotek Co., Ltd.                                                                                                          | 14/09/2020 | 4033298 | 20865362.6 |        |
| 4033478 | LG Electronics Inc.                                                                                                           | 30/09/2019 | 4033478 | 19945815.9 |        |
| 4033752 | Capital One Services, LLC                                                                                                     | 31/12/2021 | 4033752 | 21218432.9 |        |
| 4033759 | Hangzhou Hikvision Digital Technology<br>Co., Ltd.                                                                            | 16/09/2020 | 4033759 | 20864976.4 |        |
| 4033796 | Vivo Mobile Communication Co., Ltd.                                                                                           | 17/09/2020 | 4033796 | 20864892.3 |        |
| 4034049 | Dimicron, Inc<br>Harding, David<br>Taylor, Jeffery<br>Lange, Eric                                                             | 23/09/2020 | 4034049 | 20867431.7 |        |
| 4034051 | Romedis GmbH                                                                                                                  | 16/09/2020 | 4034051 | 20780584.7 | German |
| 4034075 | Henkel AG & Co. KGaA                                                                                                          | 01/09/2020 | 4034075 | 20765262.9 | German |
| 4034392 | Stemco Products, Inc.                                                                                                         | 23/09/2020 | 4034392 | 20867136.2 |        |
| 4034500 | Sea Further S.à r.l.                                                                                                          | 23/09/2020 | 4034500 | 20793143.7 |        |
| 4034562 | GlaxoSmithKline Intellectual Property<br>Development Limited                                                                  | 25/09/2020 | 4034562 | 20789858.6 |        |
| 4035718 | Fisher & Paykel Healthcare Limited                                                                                            | 09/09/2016 | 4035718 | 22161198.1 |        |
| 4035847 | LG Electronics Inc.                                                                                                           | 23/09/2020 | 4035847 | 20868179.1 |        |
| 4036371 | AIR-tec-Vogel GmbH                                                                                                            | 02/02/2022 | 4036371 | 22154722.7 | German |
| 4037167 | The Boeing Company                                                                                                            | 09/12/2021 | 4037167 | 21213359.9 |        |
| 4037191 | Avago Technologies International Sales Pte.<br>Limited                                                                        | 19/01/2022 | 4037191 | 22152210.5 |        |
| 4037234 | Samsung Electronics Co., Ltd.                                                                                                 | 01/09/2017 | 4037234 | 21214185.7 |        |
| 4037687 | Molecular Skin Therapeutics, Inc.                                                                                             | 30/09/2020 | 4037687 | 20872712.3 |        |
| 4038265 | GE Vernova Technology GmbH                                                                                                    | 23/09/2020 | 4038265 | 20788933.8 |        |
| 4038360 | Georg-August-Universität Göttingen<br>Stiftung Öffentlichen Rechts,<br>Universitätsmedizin                                    | 30/09/2020 | 4038360 | 20785732.7 | German |
| 4038569 | Microsoft Technology Licensing, LLC                                                                                           | 10/09/2020 | 4038569 | 20780455.0 |        |
| 4038703 | Northrop Grumman Systems Corporation                                                                                          | 10/09/2020 | 4038703 | 20776285.7 |        |
| 4038845 | ZTE Corporation                                                                                                               | 30/09/2019 | 4038845 | 19947737.3 |        |
| 4039449 | TRACK3D GmbH                                                                                                                  | 05/02/2021 | 4039449 | 21155532.1 | German |
| 4039461 | Ningbo Radi-Cool Advanced Energy<br>Technologies Co., Ltd.<br>Ningbo Ruiling Advanced Energy Materials<br>Institute Co., Ltd. | 30/03/2021 | 4039461 | 21165985.9 |        |
| 4039951 | Yamaha Hatsudoki Kabushiki Kaisha                                                                                             | 01/02/2022 | 4039951 | 22154488.5 |        |
| 4040232 | VisEra Technologies Company Limited                                                                                           | 08/06/2021 | 4040232 | 21178183.6 |        |
| 4040325 | Dassault Systemes SolidWorks Corporation                                                                                      | 04/02/2022 | 4040325 | 22155119.5 |        |
| 4042090 | Eotech, LLC                                                                                                                   | 16/11/2020 | 4042090 | 20911793.6 |        |
| 4042582 | Apple Inc.                                                                                                                    | 15/12/2020 | 4042582 | 20841805.3 |        |
| 4042985 | Coloplast A/S                                                                                                                 | 20/12/2018 | 4042985 | 22159397.3 |        |
| 4043016 | The Regents of the University of California                                                                                   | 24/02/2016 | 4043016 | 22157142.5 |        |
| 4043236 | BRIDGESTONE CORPORATION                                                                                                       | 16/09/2020 | 4043236 | 20872658.8 |        |

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| 4043817 | HAIER US APPLIANCE SOLUTIONS, INC.<br>HAIER SMART HOME CO., LTD.<br>QINGDAO HAIER REFRIGERATOR CO., LTD | 30/09/2020 | 4043817 | 20874777.4 |        |
| 4044344 | FDK Corporation                                                                                         | 01/02/2022 | 4044344 | 22154527.0 |        |
| 4044440 | Samsung Electronics Co., Ltd.                                                                           | 10/12/2019 | 4044440 | 22163931.3 |        |
| 4044567 | Huawei Technologies Co., Ltd.                                                                           | 13/11/2020 | 4044567 | 20890828.5 |        |
| 4046199 | Samsung Electronics Co., Ltd.                                                                           | 22/12/2020 | 4046199 | 20904591.3 |        |
| 4046378 | Huawei Technologies Co., Ltd.                                                                           | 15/12/2020 | 4046378 | 20854500.4 |        |
| 4046953 | Sembritzky, Jörg<br>Dettmann, Dagmar                                                                    | 16/02/2022 | 4046953 | 22156964.3 | German |
| 4047114 | Trützschler Group SE                                                                                    | 10/12/2021 | 4047114 | 21213677.4 | German |
| 4047465 | MyScript                                                                                                | 23/02/2021 | 4047465 | 21305217.8 |        |
| 4047479 | NXP B.V.                                                                                                | 08/02/2022 | 4047479 | 22155714.3 |        |
| 4048040 | Sungrow Power Supply Co., Ltd.                                                                          | 09/02/2022 | 4048040 | 22155858.8 |        |
| 4049021 | KRKA, d.d., Novo mesto                                                                                  | 18/12/2020 | 4049021 | 20842701.3 |        |
| 4049833 | The Boeing Company                                                                                      | 02/12/2021 | 4049833 | 21211932.5 |        |
| 4050553 | Samsung Electronics Co., Ltd.                                                                           | 17/08/2021 | 4050553 | 21191637.4 |        |
| 4050609 | Laboratory Corporation of America Holdings                                                              | 24/04/2013 | 4050609 | 21212932.4 |        |
| 4050740 | ZTE Corporation                                                                                         | 02/11/2020 | 4050740 | 20899250.3 |        |
| 4050948 | Huawei Technologies Co., Ltd.                                                                           | 29/11/2019 | 4050948 | 19953813.3 |        |
| 4051568 | Rosenxt Holding AG                                                                                      | 02/11/2020 | 4051568 | 20811535.2 | German |
| 4052251 | Google LLC                                                                                              | 13/12/2019 | 4052251 | 19839006.4 |        |
| 4052674 | Medlumics S.L.                                                                                          | 03/03/2022 | 4052674 | 22159849.3 |        |
| 4053942 | LG Energy Solution, Ltd.                                                                                | 03/09/2021 | 4053942 | 21877854.6 |        |
| 4054095 | Huawei Technologies Co., Ltd.                                                                           | 27/09/2021 | 4054095 | 21879241.4 |        |
| 4055425 | Celestial AI Inc.                                                                                       | 06/11/2020 | 4055425 | 20821060.9 |        |
| 4056509 | Otis Elevator Company                                                                                   | 10/12/2021 | 4056509 | 21213809.3 |        |
| 4056650 | Lg Chem, Ltd.                                                                                           | 15/07/2021 | 4056650 | 21882973.7 |        |
| 4056692 | CJ CheilJedang Corporation                                                                              | 09/04/2021 | 4056692 | 21870505.1 |        |
| 4056980 | LM Wind Power A/S                                                                                       | 09/03/2021 | 4056980 | 21161583.6 |        |
| 4057449 | WAGO Verwaltungsgesellschaft mbH                                                                        | 09/03/2022 | 4057449 | 22161072.8 | German |
| 4057526 | SHIMADZU CORPORATION<br>Japan Agency for Marine-Earth Science and Technology                            | 08/11/2019 | 4057526 | 19951878.8 |        |
| 4057693 | Beijing Xiaomi Mobile Software Co., Ltd.                                                                | 09/09/2021 | 4057693 | 21195644.6 |        |
| 4057923 | BIOSENSE WEBSTER (ISRAEL) LTD.                                                                          | 11/11/2020 | 4057923 | 20820739.9 |        |
| 4057932 | Aesculap AG                                                                                             | 11/11/2021 | 4057932 | 21814710.6 | German |
| 4058711 | FH Münster - University of Applied Sciences                                                             | 28/09/2020 | 4058711 | 20775672.7 |        |
| 4059109 | Well Pumps, Société Anonyme                                                                             | 13/11/2019 | 4059109 | 19829301.1 |        |
| 4059327 | LiquidStack Holding B.V                                                                                 | 13/11/2020 | 4059327 | 20811741.6 |        |
| 4059481 | Zhou, Xing                                                                                              | 09/11/2020 | 4059481 | 20887283.8 |        |
| 4059578 | adidas AG                                                                                               | 16/03/2022 | 4059578 | 22162392.9 |        |
| 4059631 | HINTERKOPF GmbH                                                                                         | 17/03/2021 | 4059631 | 21163197.3 | German |
| 4059774 | Gentherm Präzision SE                                                                                   | 11/03/2022 | 4059774 | 22161711.1 | German |
| 4059858 | CANON KABUSHIKI KAISHA                                                                                  | 15/02/2022 | 4059858 | 22156812.4 |        |
| 4059951 | CJ CheilJedang Corporation                                                                              | 02/04/2021 | 4059951 | 21870490.6 |        |
| 4060005 | PPM Industries S.p.A.                                                                                   | 11/02/2022 | 4060005 | 22156291.1 |        |
| 4060579 | HCL Technologies Limited                                                                                | 08/02/2022 | 4060579 | 22155643.4 |        |
| 4060607 | Canon Kabushiki Kaisha                                                                                  | 09/11/2020 | 4060607 | 20887656.5 |        |
| 4060631 | GEOTAB Inc.                                                                                             | 09/03/2022 | 4060631 | 22160968.8 |        |
| 4060743 | Samsung Display Co., Ltd.                                                                               | 15/09/2020 | 4060743 | 20888118.5 |        |
| 4060760 | LG Energy Solution, Ltd.                                                                                | 18/12/2020 | 4060760 | 20903274.7 |        |
| 4060975 | LG Innotek Co., Ltd.                                                                                    | 11/11/2020 | 4060975 | 20886840.6 |        |
| 4061042 | Beijing Xiaomi Mobile Software Co., Ltd.                                                                | 29/07/2021 | 4061042 | 21188369.9 |        |
| 4061172 | NIKE Innovate C.V.                                                                                      | 23/11/2020 | 4061172 | 20825354.2 |        |
| 4061764 | CVS Ferrari S.p.A.                                                                                      | 19/11/2020 | 4061764 | 20838598.9 |        |
| 4062059 | VESTAS WIND SYSTEMS A/S                                                                                 | 20/11/2020 | 4062059 | 20816397.2 |        |
| 4062191 | Sense Photonics, Inc.                                                                                   | 07/01/2021 | 4062191 | 21738192.0 |        |

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|---------|-------------------------------------------------------------------------|------------|---------|------------|--------|
| 4062585 | Eygs LLP                                                                | 19/11/2020 | 4062585 | 20824818.7 |        |
| 4063305 | BW Converting S.p.A.                                                    | 13/09/2013 | 4063305 | 22162569.2 |        |
| 4064095 | INCM - Imprensa Nacional-Casa da Moeda, S.A.                            | 19/03/2022 | 4064095 | 22163117.9 |        |
|         | Universidade de Coimbra                                                 |            |         |            |        |
| 4064678 | Ficosa Adas, S.L.U.                                                     | 24/03/2021 | 4064678 | 21382242.2 |        |
| 4065213 | Medtronic, Inc.                                                         | 24/11/2020 | 4065213 | 20828433.1 |        |
| 4065463 | Waaijenberg Beheer B.V.                                                 | 19/11/2020 | 4065463 | 20815962.4 |        |
| 4065755 | LENZING AKTIENGESELLSCHAFT                                              | 26/11/2020 | 4065755 | 20811004.9 | German |
| 4065779 | BSH Hausgeräte GmbH                                                     | 11/11/2020 | 4065779 | 20806971.6 | German |
| 4066451 | ARRIS ENTERPRISES, LLC                                                  | 20/11/2020 | 4066451 | 20825041.5 |        |
| 4066535 | ZTE Corporation                                                         | 07/08/2020 | 4066535 | 20948791.7 |        |
| 4066549 | ZTE Corporation                                                         | 15/05/2020 | 4066549 | 20896116.9 |        |
| 4067177 | Mitsuba Corporation                                                     | 24/11/2020 | 4067177 | 20891691.6 |        |
|         | MAZDA MOTOR CORPORATION                                                 |            |         |            |        |
| 4067215 | Kim, Mong Ryong                                                         | 30/07/2020 | 4067215 | 20892273.2 |        |
| 4067331 | Honshu Chemical Industry Co., Ltd.                                      | 26/11/2020 | 4067331 | 20892998.4 |        |
| 4067709 | GEMÜ Gebr. Müller Apparatebau GmbH & Co. Kommanditgesellschaft          | 28/01/2022 | 4067709 | 22153933.1 | German |
| 4067851 | ROSEMOUNT AEROSPACE INC.                                                | 22/03/2022 | 4067851 | 22163488.4 |        |
| 4067871 | Leica Microsystems CMS GmbH                                             | 25/01/2022 | 4067871 | 22153210.4 |        |
| 4068150 | BIGO TECHNOLOGY PTE. LTD.                                               | 07/08/2020 | 4068150 | 20893388.7 |        |
| 4068316 | KABUSHIKI KAISHA TOSHIBA Toshiba Energy Systems & Solutions Corporation | 26/11/2019 | 4068316 | 19954055.0 |        |
| 4068479 | LG Energy Solution, Ltd.                                                | 26/11/2020 | 4068479 | 20923951.6 |        |
| 4068519 | Wago Verwaltungsgesellschaft mbH                                        | 28/03/2019 | 4068519 | 22170265.7 | German |
| 4069114 | Bard Peripheral Vascular, Inc.                                          | 03/12/2019 | 4069114 | 19828042.2 |        |
| 4069328 | Cortronik GmbH                                                          | 17/11/2020 | 4069328 | 20808351.9 |        |
| 4070157 | Ghost Vision, Inc.                                                      | 07/12/2020 | 4070157 | 20898201.7 |        |
| 4072995 | Chemetics Inc.                                                          | 13/12/2019 | 4072995 | 19836389.7 |        |
| 4073645 | Cisco Technology, Inc.                                                  | 25/11/2020 | 4073645 | 20830028.5 |        |
| 4073690 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                    | 08/09/2020 | 4073690 | 20898883.2 |        |
| 4073701 | Trudell Medical International Inc.                                      | 10/12/2020 | 4073701 | 20898600.0 |        |
| 4073972 | Apple Inc.                                                              | 12/02/2020 | 4073972 | 20918891.1 |        |
| 4074537 | Viavi Solutions Inc.                                                    | 11/04/2022 | 4074537 | 22167563.0 |        |
| 4075183 | FUJIFILM Corporation                                                    | 11/04/2022 | 4075183 | 22167545.7 |        |
| 4075479 | Commissariat à l'Energie Atomique et aux Energies Alternatives          | 12/04/2022 | 4075479 | 22167773.5 | French |
| 4075892 | Huawei Technologies Co., Ltd.                                           | 31/12/2019 | 4075892 | 19958499.6 |        |
| 4076226 | Aesculap AG                                                             | 17/12/2020 | 4076226 | 20839273.8 | German |
| 4076280 | Onpoint Vision, Inc.                                                    | 18/11/2020 | 4076280 | 20902943.8 |        |
| 4076758 | Flottweg SE                                                             | 17/12/2020 | 4076758 | 20837966.9 | German |
| 4076910 | ARKEMA FRANCE                                                           | 21/12/2020 | 4076910 | 20833892.1 |        |
| 4077570 | Bostik SA                                                               | 17/12/2020 | 4077570 | 20833832.7 |        |
| 4077854 | Kiekert AG                                                              | 15/12/2020 | 4077854 | 20845381.1 | German |
| 4078124 | Sensata Technologies, Inc.                                              | 12/01/2021 | 4078124 | 21704071.6 |        |
| 4078247 | GeoQuest Systems B.V.                                                   | 17/12/2020 | 4078247 | 20901603.9 |        |
| 4078276 | E Ink Corporation                                                       | 09/12/2020 | 4078276 | 20901150.1 |        |
| 4078347 | Google LLC                                                              | 09/11/2020 | 4078347 | 20819965.3 |        |
| 4078554 | ORANGE                                                                  | 17/12/2020 | 4078554 | 20848845.2 | French |
| 4078555 | ORANGE                                                                  | 17/12/2020 | 4078555 | 20848957.5 | French |
| 4078754 | Mercedes-Benz Group AG                                                  | 09/12/2020 | 4078754 | 20823786.7 | German |
| 4080305 | Baker Hughes Holdings LLC                                               | 13/04/2022 | 4080305 | 22168143.0 |        |
| 4080762 | STMicroelectronics S.r.l.                                               | 18/03/2022 | 4080762 | 22163087.4 |        |
| 4080815 | Red Hat, Inc.                                                           | 04/06/2021 | 4080815 | 21177812.1 |        |
| 4081100 | ResMed Sensor Technologies Limited                                      | 23/12/2020 | 4081100 | 20829227.6 |        |
| 4081273 | Corthotec Ltd                                                           | 21/12/2020 | 4081273 | 20838248.1 |        |
| 4081454 | Société Anonyme Belge de Constructions Aéronautiques, S.A.B.C.A.        | 11/12/2020 | 4081454 | 20820980.9 |        |

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| 4081657 | Illumina Cambridge Limited<br>Illumina Singapore Pte. Ltd.<br>Illumina, Inc.                                                                                              | 22/12/2020 | 4081657 | 20842860.7 |        |
| 4081756 | Connected Intelligence Systems Ltd.<br>3M Innovative Properties Company                                                                                                   | 30/11/2020 | 4081756 | 20829070.0 |        |
| 4082372 | George TFE SCP                                                                                                                                                            | 29/04/2021 | 4082372 | 21020236.2 |        |
| 4082382 | Jemella Limited                                                                                                                                                           | 12/08/2011 | 4082382 | 22179710.3 |        |
| 4082383 | Jemella Limited                                                                                                                                                           | 12/08/2011 | 4082383 | 22179715.2 |        |
| 4082587 | Novadip Biosciences                                                                                                                                                       | 20/09/2018 | 4082587 | 22175965.7 |        |
| 4083298 | LG Electronics Inc.                                                                                                                                                       | 29/05/2020 | 4083298 | 20907904.5 |        |
| 4083340 | Panasonic Intellectual Property<br>Management Co., Ltd.                                                                                                                   | 14/12/2020 | 4083340 | 20906681.0 |        |
| 4083668 | FUJIFILM Corporation                                                                                                                                                      | 11/12/2020 | 4083668 | 20906449.2 |        |
| 4084212 | LG Energy Solution, Ltd.                                                                                                                                                  | 05/04/2021 | 4084212 | 21804936.9 |        |
| 4084483 | InterDigital Patent Holdings, Inc.                                                                                                                                        | 26/11/2014 | 4084483 | 22166636.5 |        |
| 4084751 | AMO Development, LLC                                                                                                                                                      | 18/11/2020 | 4084751 | 20816612.4 |        |
| 4084853 | Koninklijke Philips N.V.                                                                                                                                                  | 30/12/2020 | 4084853 | 20841740.2 |        |
| 4085229 | RUAG Ammotec AG                                                                                                                                                           | 30/12/2020 | 4085229 | 20839362.9 | German |
| 4085293 | AMO Groningen B.V.                                                                                                                                                        | 16/11/2020 | 4085293 | 20808329.5 |        |
| 4085595 | Sony Group Corporation                                                                                                                                                    | 09/12/2020 | 4085595 | 20824484.8 |        |
| 4085597 | Withings                                                                                                                                                                  | 23/12/2020 | 4085597 | 20833914.3 |        |
| 4086449 | LM Wind Power A/S                                                                                                                                                         | 04/05/2021 | 4086449 | 21172001.6 |        |
| 4086477 | WITTENSTEIN SE                                                                                                                                                            | 26/04/2022 | 4086477 | 22170003.2 | German |
| 4086981 | LG Energy Solution, Ltd.                                                                                                                                                  | 13/01/2022 | 4086981 | 22744367.8 |        |
| 4087151 | Datang Mobile Communications Equipment<br>Co., Ltd.                                                                                                                       | 07/12/2020 | 4087151 | 20909250.1 |        |
| 4087521 | Edwards Lifesciences Corporation                                                                                                                                          | 10/02/2021 | 4087521 | 21710668.1 |        |
| 4087805 | Hilti Aktiengesellschaft                                                                                                                                                  | 14/12/2020 | 4087805 | 20820458.6 | German |
| 4088288 | PAIGE.AI, Inc.                                                                                                                                                            | 16/12/2020 | 4088288 | 20842091.9 |        |
| 4088598 | KT&G Corporation                                                                                                                                                          | 14/05/2020 | 4088598 | 22182998.9 |        |
| 4088752 | Illumipure Inc.                                                                                                                                                           | 30/03/2022 | 4088752 | 22165402.3 |        |
| 4089086 | Zhangzhou Pien Tze Huang Pharmaceutical<br>Co., Ltd.                                                                                                                      | 08/01/2021 | 4089086 | 21738026.0 |        |
| 4089326 | PRATT & WHITNEY CANADA CORP.                                                                                                                                              | 16/05/2022 | 4089326 | 22173484.1 |        |
| 4090277 | Biosense Webster (Israel) Ltd.                                                                                                                                            | 06/01/2021 | 4090277 | 21701167.5 |        |
| 4090584 | Ortlieb Sportartikel GmbH                                                                                                                                                 | 11/01/2021 | 4090584 | 21707151.3 | German |
| 4091130 | Aselsan Elektronik Sanayi ve Ticaret<br>Anonim Sirketi<br>Istanbul Teknik Universitesi                                                                                    | 27/08/2021 | 4091130 | 21862237.1 |        |
| 4091213 | Sensata Technologies, Inc.                                                                                                                                                | 12/02/2021 | 4091213 | 21710744.0 |        |
| 4091529 | FUJIFILM Corporation                                                                                                                                                      | 19/05/2022 | 4091529 | 22174437.8 |        |
| 4091655 | ResMed Pty Ltd                                                                                                                                                            | 15/09/2015 | 4091655 | 22168746.0 |        |
| 4092022 | CHIA TAI TIANQING<br>PHARMACEUTICAL GROUP CO., LTD.                                                                                                                       | 15/01/2021 | 4092022 | 21740747.7 |        |
| 4092340 | Naber Holding GmbH & Co. KG                                                                                                                                               | 04/04/2022 | 4092340 | 22166522.7 | German |
| 4093927 | Calibre Enterprises Limited                                                                                                                                               | 20/01/2021 | 4093927 | 21743678.1 |        |
| 4094492 | Cisco Technology, Inc.                                                                                                                                                    | 22/01/2021 | 4094492 | 21707593.6 |        |
| 4094502 | Samsung Electronics Co., Ltd.                                                                                                                                             | 22/02/2021 | 4094502 | 21756806.2 |        |
| 4095386 | Copeland Climate Technologies (Suzhou)<br>Co., Ltd.                                                                                                                       | 09/09/2020 | 4095386 | 20916204.9 |        |
| 4095549 | Vivo Mobile Communication Co., Ltd.                                                                                                                                       | 14/01/2021 | 4095549 | 21745045.1 |        |
| 4095703 | Inspur Suzhou Intelligent Technology Co.,<br>Ltd.                                                                                                                         | 27/04/2020 | 4095703 | 20917386.3 |        |
| 4095789 | Intel Corporation                                                                                                                                                         | 15/03/2022 | 4095789 | 22162018.0 |        |
| 4095865 | Siemens Healthineers AG                                                                                                                                                   | 25/05/2021 | 4095865 | 21175587.1 | German |
| 4095994 | LG Energy Solution, Ltd.                                                                                                                                                  | 19/07/2021 | 4095994 | 21846656.3 |        |
| 4096045 | China Electric Power Research Institute<br>Electric Power Research Institute of State<br>Grid Liaoning Electric Power Co., Ltd.<br>State Grid Corporation of China (SGCC) | 26/09/2021 | 4096045 | 21926072.6 |        |
| 4096757 | ResMed Sensor Technologies Limited                                                                                                                                        | 29/01/2021 | 4096757 | 21703315.8 |        |
| 4097199 | Firmenich SA                                                                                                                                                              | 12/04/2021 | 4097199 | 21716782.4 |        |

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| 4097564 | Magic Leap, Inc.                                                            | 28/12/2020 | 4097564 | 20916802.0 | German |
| 4097871 | Trakpoint Solutions, Inc.                                                   | 28/01/2021 | 4097871 | 21747278.6 |        |
| 4098091 | Dick, Bernhard                                                              | 16/05/2022 | 4098091 | 22000134.1 |        |
| 4098213 | Covidien LP                                                                 | 26/05/2022 | 4098213 | 22175625.7 |        |
| 4098681 | Victrex Manufacturing Limited                                               | 19/01/2016 | 4098681 | 22181116.9 |        |
| 4099130 | INTEL Corporation                                                           | 11/03/2022 | 4099130 | 22161581.8 |        |
| 4099423 | LG Energy Solution, Ltd.                                                    | 17/09/2021 | 4099423 | 21886571.5 |        |
| 4099522 | MITSUBISHI ELECTRIC CORPORATION                                             | 27/01/2020 | 4099522 | 20916699.0 |        |
| 4099637 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                         | 27/02/2020 | 4099637 | 20921673.8 | German |
| 4099662 | Tencent Technology (Shenzhen) Company Limited                               | 28/07/2021 | 4099662 | 21860023.7 |        |
| 4099770 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                        | 03/04/2020 | 4099770 | 20928102.1 |        |
| 4100175 | Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO | 02/02/2021 | 4100175 | 21703563.3 |        |
| 4100725 | The Steelastic Company LLC                                                  | 27/01/2021 | 4100725 | 21706788.3 |        |
| 4100844 | Oracle International Corporation                                            | 07/01/2021 | 4100844 | 21702789.5 |        |
| 4101243 | Nokia Technologies Oy                                                       | 18/12/2020 | 4101243 | 20838470.1 |        |
| 4101501 | ZOLL Medical Corporation                                                    | 28/03/2016 | 4101501 | 22189133.6 | German |
| 4101618 | NOK Corporation                                                             | 25/12/2020 | 4101618 | 20917705.4 |        |
| 4101737 | Komatsu Ltd.                                                                | 18/03/2021 | 4101737 | 21776154.3 |        |
| 4101740 | Sika Technology AG                                                          | 17/05/2019 | 4101740 | 22182417.0 |        |
| 4101764 | Lisa Dräxlmaier GmbH                                                        | 01/06/2022 | 4101764 | 22176600.9 |        |
| 4102108 | Safran Transmission Systems                                                 | 30/05/2022 | 4102108 | 22176064.8 |        |
| 4102367 | Red Hat, Inc.                                                               | 28/07/2021 | 4102367 | 21188113.1 |        |
| 4102690 | Jatco Ltd                                                                   | 23/12/2020 | 4102690 | 20917278.2 | French |
| 4102973 | Syngenta Crop Protection AG                                                 | 26/01/2021 | 4102973 | 21702006.4 |        |
| 4103022 | Arc France                                                                  | 12/02/2021 | 4103022 | 21708728.7 |        |
| 4103256 | The Foundry, LLC                                                            | 12/02/2021 | 4103256 | 21715691.8 |        |
| 4103272 | Wisconsin Alumni Research Foundation                                        | 09/02/2021 | 4103272 | 21753470.0 |        |
| 4104233 | Saint-Gobain Ceramics & Plastics, Inc.                                      | 23/04/2021 | 4104233 | 21792301.0 |        |
| 4104359 | Sony Group Corporation                                                      | 08/02/2021 | 4104359 | 21704246.4 |        |
| 4104557 | ZTE Corporation                                                             | 14/02/2020 | 4104557 | 20890363.3 | German |
| 4104906 | Broetzmann, Joachim Klaus                                                   | 07/06/2022 | 4104906 | 22177588.5 |        |
| 4104909 | Tseng, Ching                                                                | 22/07/2020 | 4104909 | 20919219.4 |        |
| 4106437 | Xiamen Dmaster Health Tech Co., Ltd.                                        | 14/02/2020 | 4106437 | 20918556.0 |        |
| 4106910 | Beijing Xiaomi Mobile Software Co., Ltd.                                    | 19/02/2021 | 4106910 | 21709104.0 |        |
| 4107467 | 3M Innovative Properties Company                                            | 28/01/2021 | 4107467 | 21757412.8 |        |
| 4107491 | Bae Systems Hägglunds Aktiebolag                                            | 20/02/2020 | 4107491 | 20711473.7 |        |
| 4107632 | Micro Motion, Inc.                                                          | 22/01/2021 | 4107632 | 21702106.2 | French |
| 4107706 | Google LLC                                                                  | 10/02/2021 | 4107706 | 21703477.6 |        |
| 4107706 | Imprimerie Nationale                                                        | 14/05/2020 | 4107706 | 22190900.5 |        |
| 4108112 | KT&G Corporation                                                            | 17/01/2019 | 4108112 | 22172376.0 |        |
| 4108137 | Anthony, Inc.                                                               | 01/03/2019 | 4108137 | 22189655.8 |        |
| 4108194 | Stryker European Operations Limited                                         | 13/06/2022 | 4108194 | 22178552.0 |        |
| 4108379 | Welner Oy                                                                   | 10/06/2022 | 4108379 | 22178379.8 |        |
| 4108545 | VOLKSWAGEN AG                                                               | 13/09/2021 | 4108545 | 21869655.7 | German |
| 4109071 | LG Energy Solution, Ltd.                                                    | 14/03/2022 | 4109071 | 22161848.1 |        |
| 4109217 | Intel Corporation                                                           | 12/04/2022 | 4109217 | 22167848.5 |        |
| 4109352 | FUJITSU LIMITED                                                             | 28/02/2022 | 4109352 | 22159086.2 |        |
| 4109385 | Intel Corporation                                                           | 15/01/2021 | 4109385 | 21757204.9 |        |
| 4109797 | Datang Mobile Communications Equipment Co., Ltd.                            | 05/02/2021 | 4109797 | 21756336.0 |        |
| 4109940 | Spreadtrum Communications (Shanghai) Co., Ltd.                              | 23/03/2018 | 4109940 | 22163147.6 |        |
| 4109971 | Huawei Technologies Co. Ltd.                                                | 19/02/2021 | 4109971 | 21709103.2 | German |
| 4110551 | 3M Innovative Properties Company                                            | 27/04/2021 | 4110551 | 21726309.4 |        |
| 4111100 | Kraton Polymers LLC                                                         | 01/07/2021 | 4111100 | 21183300.9 |        |
| 4111940 | Ovesco Endoscopy AG                                                         |            | 4111940 |            |        |



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| 4112013 | Love U Co., Ltd.                                                                   | 24/06/2021 | 4112013 | 21828531.0 |        |
| 4112300 | NIPPON SHEET GLASS COMPANY, LIMITED                                                | 01/02/2021 | 4112300 | 21759784.8 |        |
| 4112466 | The Boeing Company                                                                 | 27/06/2022 | 4112466 | 22181143.3 |        |
| 4112480 | Air T, Inc.                                                                        | 29/06/2022 | 4112480 | 22181754.7 |        |
| 4112838 | Alcadrain s.r.o.                                                                   | 27/06/2022 | 4112838 | 22181273.8 |        |
| 4113495 | BOE Technology Group Co., Ltd.<br>Chengdu BOE Optoelectronics Technology Co., Ltd. | 27/02/2020 | 4113495 | 20920757.0 |        |
| 4113680 | LG Energy Solution, Ltd.                                                           | 09/03/2021 | 4113680 | 21822426.9 |        |
| 4113771 | Littelfuse, Inc.                                                                   | 21/06/2022 | 4113771 | 22180231.7 |        |
| 4114089 | Huawei Technologies Co., Ltd.                                                      | 25/02/2021 | 4114089 | 21776081.8 |        |
| 4114108 | Huawei Technologies Co., Ltd.                                                      | 30/03/2020 | 4114108 | 20928964.4 |        |
| 4114482 | CareFusion 303, Inc.                                                               | 25/02/2021 | 4114482 | 21712692.9 |        |
| 4114655 | Lamcoatings B.V.                                                                   | 03/03/2021 | 4114655 | 21710421.5 |        |
| 4114687 | Bürstner GmbH & CO. KG                                                             | 01/03/2021 | 4114687 | 21714313.0 | German |
| 4115012 | Voith Patent GmbH                                                                  | 21/12/2020 | 4115012 | 20845568.3 | German |
| 4115211 | GE Precision Healthcare LLC                                                        | 04/03/2020 | 4115211 | 20923662.9 |        |
| 4115253 | Starship Technologies OÜ                                                           | 24/02/2021 | 4115253 | 21706954.1 |        |
| 4115267 | NEKONATA XR TECHNOLOGIES GMBH                                                      | 02/03/2021 | 4115267 | 21710395.1 | German |
| 4115383 | InterDigital CE Patent Holdings, SAS                                               | 22/02/2021 | 4115383 | 21706283.5 |        |
| 4115714 | Praxair S.T. Technology, Inc.                                                      | 04/03/2021 | 4115714 | 21714550.7 |        |
| 4115772 | Fama Sofas, S.L.U.                                                                 | 25/02/2022 | 4115772 | 22382162.0 |        |
| 4115821 | Abbott Cardiovascular Systems, Inc.                                                | 10/09/2012 | 4115821 | 22192979.7 |        |
| 4115930 | ResMed Pty Ltd                                                                     | 14/03/2016 | 4115930 | 22172573.2 |        |
| 4116302 | Tianjin Jikun Medical Technology Co., Ltd.                                         | 24/09/2021 | 4116302 | 21905192.7 |        |
| 4116314 | Zhejiang Shenzhou Pharmaceutical Company Limited                                   | 06/05/2020 | 4116314 | 20925927.4 |        |
| 4117036 | Sony Group Corporation                                                             | 02/05/2016 | 4117036 | 22189405.8 |        |
| 4117059 | SUMITOMO CHEMICAL COMPANY, LIMITED                                                 | 03/03/2021 | 4117059 | 21764408.7 |        |
| 4117560 | Biocompatibles UK Limited                                                          | 12/03/2021 | 4117560 | 21715753.6 |        |
| 4119664 | Kao Corporation                                                                    | 11/03/2021 | 4119664 | 21767977.8 |        |
| 4119716 | BSH Hausgeräte GmbH                                                                | 14/07/2021 | 4119716 | 21185479.9 |        |
| 4120022 | CANON KABUSHIKI KAISHA                                                             | 29/06/2022 | 4120022 | 22181796.8 |        |
| 4120080 | Straitdeer Pte. Ltd.                                                               | 15/04/2020 | 4120080 | 20930959.0 |        |
| 4120208 | BLU s.r.l.                                                                         | 12/07/2022 | 4120208 | 22184497.0 |        |
| 4120541 | Panasonic Intellectual Property Management Co., Ltd.                               | 03/03/2021 | 4120541 | 21767286.4 |        |
| 4120572 | Huawei Technologies Co., Ltd.                                                      | 20/03/2021 | 4120572 | 21782019.0 |        |
| 4120650 | OMRON Corporation                                                                  | 18/01/2021 | 4120650 | 21767944.8 |        |
| 4120794 | Samsung Electronics Co., Ltd.                                                      | 07/09/2020 | 4120794 | 20925328.5 |        |
| 4120961 | Edwards Lifesciences Corporation                                                   | 02/02/2021 | 4120961 | 21708813.7 |        |
| 4121362 | Nyprom Inc.                                                                        | 17/03/2021 | 4121362 | 21772427.7 |        |
| 4122434 | Universitätsklinikum Jena<br>Innovent e.V.                                         | 23/07/2021 | 4122434 | 21187427.6 | German |
| 4122577 | Donaldson Company, Inc.                                                            | 30/03/2010 | 4122577 | 22187980.2 |        |
| 4123114 | Munafò, Placido<br>Munafò, Isabella<br>Corradini, Roberta                          | 19/07/2022 | 4123114 | 22185818.6 |        |
| 4123604 | Canon Kabushiki Kaisha                                                             | 11/07/2022 | 4123604 | 22184108.3 |        |
| 4123791 | Jiangsu Contemporary Ampere Technology Limited                                     | 13/11/2020 | 4123791 | 20961217.5 |        |
| 4124401 | Concept Laser GmbH                                                                 | 30/05/2022 | 4124401 | 22176174.5 |        |
| 4124585 | Tetra Laval Holdings & Finance S.A.                                                | 05/07/2022 | 4124585 | 22183094.6 |        |
| 4124794 | Goodrich Lighting Systems GmbH & Co. KG                                            | 28/07/2021 | 4124794 | 21188249.3 |        |
| 4124838 | Hanla IMS Co. Ltd.                                                                 | 13/07/2022 | 4124838 | 22184690.0 |        |
| 4125586 | Junquera, Leonardo                                                                 | 31/03/2021 | 4125586 | 21780076.2 |        |
| 4126094 | T.J.Smith and Nephew, Limited                                                      | 23/03/2021 | 4126094 | 21715207.3 |        |
| 4126596 | DAF Trucks N.V.                                                                    | 29/03/2021 | 4126596 | 21714988.9 |        |

|         |                                                                                                 |            |         |            |        |
|---------|-------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4126640 | VOLVO TRUCK CORPORATION                                                                         | 22/02/2021 | 4126640 | 21707675.1 |        |
| 4127326 | Caterpillar Inc.                                                                                | 18/03/2021 | 4127326 | 21718693.1 |        |
| 4127561 | Corning Incorporated                                                                            | 30/03/2021 | 4127561 | 21780396.4 |        |
| 4127763 | ASSA ABLOY AB                                                                                   | 24/03/2021 | 4127763 | 21715532.4 |        |
| 4128879 | InterDigital Patent Holdings, Inc.                                                              | 01/04/2021 | 4128879 | 21720652.3 |        |
| 4129247 | Baierle, Tobias                                                                                 | 02/08/2022 | 4129247 | 22000191.1 | German |
| 4129382 | Boston Scientific Scimed, Inc.                                                                  | 10/09/2019 | 4129382 | 22198294.5 |        |
| 4129700 | Kyocera Corporation                                                                             | 26/03/2021 | 4129700 | 21781399.7 |        |
| 4129888 | KRONES AG                                                                                       | 08/08/2022 | 4129888 | 22189187.2 | German |
| 4130081 | Mitsubishi Chemical Corporation                                                                 | 17/03/2021 | 4130081 | 21777072.6 |        |
| 4130333 | Horiba Stec, Co., Ltd.                                                                          | 03/02/2021 | 4130333 | 21774706.2 |        |
| 4130363 | Sumitomo Rubber Industries, Ltd.                                                                | 16/02/2021 | 4130363 | 21793133.6 |        |
| 4130835 | Largan Precision Co. Ltd.                                                                       | 02/08/2022 | 4130835 | 22188213.7 |        |
| 4131030 | Beijing Wodong Tianjun Information Technology Co., Ltd.                                         | 22/01/2021 | 4131030 | 21774930.8 |        |
| 4131287 | Beijing Jingdong Century Trading Co., Ltd. Panasonic Intellectual Property Management Co., Ltd. | 20/01/2021 | 4131287 | 21775860.6 |        |
| 4132571 | Hofseth Biocare ASA                                                                             | 07/04/2021 | 4132571 | 21784796.1 |        |
| 4133025 | Samsung Display Co., Ltd.                                                                       | 07/04/2021 | 4133025 | 21722767.7 |        |
| 4133613 | QUALCOMM Incorporated                                                                           | 11/02/2021 | 4133613 | 21710698.8 |        |
| 4133856 | QUALCOMM INCORPORATED                                                                           | 09/04/2021 | 4133856 | 21784705.2 |        |
| 4134183 | JFE Steel Corporation                                                                           | 01/12/2020 | 4134183 | 20930236.3 |        |
| 4134487 | Digga Australia Pty Ltd                                                                         | 19/07/2022 | 4134487 | 22185706.3 |        |
| 4134716 | Intel Corporation                                                                               | 08/07/2022 | 4134716 | 22183724.8 |        |
| 4135446 | Datang Mobile Communications Equipment Co., Ltd.                                                | 02/04/2021 | 4135446 | 21784664.1 |        |
| 4135827 | Becton, Dickinson and Company                                                                   | 14/04/2021 | 4135827 | 21722736.2 |        |
| 4136331 | VALEO SYSTEMES THERMIQUES                                                                       | 13/04/2021 | 4136331 | 21718563.6 | French |
| 4136416 | VEGA Grieshaber KG                                                                              | 24/09/2020 | 4136416 | 20775025.8 | German |
| 4137385 | VOLVO TRUCK CORPORATION                                                                         | 02/09/2015 | 4137385 | 22200089.5 |        |
| 4137790 | Imec VZW                                                                                        | 30/11/2010 | 4137790 | 22200035.8 |        |
| 4138140 | Commissariat à l'Energie Atomique et aux Energies Alternatives                                  | 09/08/2022 | 4138140 | 22189371.2 | French |
| 4138388 | Arlo Technologies, Inc.                                                                         | 19/08/2022 | 4138388 | 22191268.6 |        |
| 4138800 | Kenvue Brands LLC                                                                               | 19/04/2021 | 4138800 | 21721206.7 |        |
| 4139831 | AUMOVIO Autonomous Mobility Germany GmbH                                                        | 17/03/2021 | 4139831 | 21714108.4 |        |
| 4139862 | Benlink AG                                                                                      | 24/03/2021 | 4139862 | 21714149.8 |        |
| 4140241 | Lenovo (Singapore) Pte. Ltd.                                                                    | 21/04/2021 | 4140241 | 21721631.6 |        |
| 4141098 | BOE Technology Group Co., Ltd.                                                                  | 29/01/2021 | 4141098 | 21921882.3 |        |
| 4141373 | KNDS France                                                                                     | 23/08/2022 | 4141373 | 22191750.3 | French |
| 4142222 | KONE Corporation                                                                                | 24/09/2020 | 4142222 | 22174858.5 |        |
| 4142308 | Shenzhen Shokz Co., Ltd.                                                                        | 16/07/2021 | 4142308 | 21920144.9 |        |
| 4142814 | SoClean, Inc.                                                                                   | 30/04/2021 | 4142814 | 21796439.4 |        |
| 4142855 | Medtronic Xomed, Inc.                                                                           | 28/04/2021 | 4142855 | 21726760.8 |        |
| 4142866 | Neuroloop GmbH                                                                                  | 09/04/2021 | 4142866 | 21719865.4 | German |
| 4143064 | Zoox, Inc.                                                                                      | 30/04/2021 | 4143064 | 21796214.1 |        |
| 4143185 | Perha Pharmaceuticals                                                                           | 29/04/2021 | 4143185 | 21721939.3 |        |
| 4143742 | Medtronic Navigation, Inc.                                                                      | 29/04/2021 | 4143742 | 21726517.2 |        |
| 4144615 | Oechsler AG                                                                                     | 01/09/2022 | 4144615 | 22193352.6 | German |
| 4144648 | The Boeing Company                                                                              | 21/06/2022 | 4144648 | 22180057.6 |        |
| 4144651 | Airbus Defence and Space S.A.U.                                                                 | 01/09/2021 | 4144651 | 21382790.0 |        |
| 4145081 | B/E Aerospace, Inc.                                                                             | 05/09/2022 | 4145081 | 22193908.5 |        |
| 4145167 | Apple Inc.                                                                                      | 02/09/2022 | 4145167 | 22193685.9 |        |
| 4145186 | Nikon-Essilor Co., Ltd.                                                                         | 01/05/2020 | 4145186 | 20933471.3 |        |
| 4145258 | Candy S.p.A.                                                                                    | 31/08/2022 | 4145258 | 22193058.9 |        |
| 4145359 | Datang Mobile Communications Equipment Co., Ltd.                                                | 19/02/2021 | 4145359 | 21795817.2 |        |
| 4146129 | PASQUANTONIO, Guido                                                                             | 30/04/2021 | 4146129 | 21733174.3 |        |
| 4146434 | Atlas Copco Industrial Technique AB                                                             | 06/05/2021 | 4146434 | 21726061.1 |        |
| 4146658 | Oncodesign Precision Medicine (OPM)                                                             | 05/05/2021 | 4146658 | 21722503.6 |        |

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|---------|-------------------------------------------------------------------|------------|---------|------------|--------|
| 4147136 | VMware LLC                                                        | 17/07/2021 | 4147136 | 21752407.3 |        |
| 4147199 | The Procter & Gamble Company                                      | 07/05/2021 | 4147199 | 21729375.2 |        |
| 4147287 | The Regents of the University of Colorado,<br>a body<br>corporate | 28/05/2021 | 4147287 | 21817007.4 |        |
| 4147621 | Vorwerk & Co. Interholding GmbH                                   | 09/09/2021 | 4147621 | 21195695.8 | German |
| 4147931 | Goodrich Corporation                                              | 05/09/2022 | 4147931 | 22193996.0 |        |
| 4147979 | Hamilton Sundstrand Corporation                                   | 08/09/2022 | 4147979 | 22194675.9 |        |
| 4148174 | Chopvalue Manufacturing Ltd                                       | 09/09/2021 | 4148174 | 21195673.5 |        |
| 4148194 | Pipelife Nederland B.V.                                           | 07/09/2022 | 4148194 | 22194391.3 |        |
| 4148284 | MTU Aero Engines AG                                               | 02/09/2022 | 4148284 | 22193762.6 | German |
| 4148289 | AIRBUS OPERATIONS (S.A.S.)                                        | 08/09/2022 | 4148289 | 22194718.7 | French |
| 4148290 | Hamilton Sundstrand Corporation                                   | 09/09/2022 | 4148290 | 22194929.0 |        |
| 4148319 | Jiangsu Automation Research Institute                             | 27/09/2020 | 4148319 | 20935709.4 |        |
| 4148485 | Goodrich Corporation                                              | 08/09/2022 | 4148485 | 22194691.6 |        |
| 4148511 | ABB SCHWEIZ AG                                                    | 13/09/2021 | 4148511 | 21196370.7 |        |
| 4148568 | Cambricon (Xi'an) Semiconductor Co., Ltd.                         | 07/05/2021 | 4148568 | 21800406.7 |        |
| 4148571 | Imagination Technologies Limited                                  | 06/09/2022 | 4148571 | 22194214.7 |        |
| 4148599 | Argo AI, LLC                                                      | 02/09/2022 | 4148599 | 22193680.0 |        |
| 4148668 | Aptiv Services Poland S.A.                                        | 10/09/2021 | 4148668 | 21195992.9 |        |
| 4148688 | TotalEnergies OneTech                                             | 09/09/2021 | 4148688 | 21306233.4 |        |
| 4148725 | Harman International Industries, Inc.                             | 12/09/2022 | 4148725 | 22195073.6 |        |
| 4149286 | International Tobacco Machinery Poland<br>SP. Z O.O.              | 30/04/2021 | 4149286 | 21722475.7 |        |
| 4149837 | Wing Aviation LLC                                                 | 22/07/2021 | 4149837 | 21846450.1 |        |
| 4150162 | Shore Defence Limited                                             | 07/05/2021 | 4150162 | 21726706.1 |        |
| 4150213 | Copeland LP                                                       | 12/05/2021 | 4150213 | 21804088.9 |        |
| 4150430 | The Trustees Of The Stevens Institute Of<br>Technology            | 13/05/2021 | 4150430 | 21730394.0 |        |
| 4150516 | Five AI Limited                                                   | 20/08/2021 | 4150516 | 21762728.0 |        |
| 4150603 | Cilag GmbH International                                          | 20/05/2022 | 4150603 | 22727468.5 |        |
| 4150614 | Bose Corporation                                                  | 09/04/2021 | 4150614 | 21723059.8 |        |
| 4151084 | EdiVite S.r.l.                                                    | 09/09/2022 | 4151084 | 22194757.5 |        |
| 4151443 | LS Mtron Ltd.                                                     | 10/05/2021 | 4151443 | 21804940.1 |        |
| 4151524 | Mitsubishi Heavy Industries, Ltd.                                 | 13/01/2022 | 4151524 | 22739464.0 |        |
| 4151582 | Otis Elevator Company                                             | 15/09/2022 | 4151582 | 22195988.5 |        |
| 4151862 | Carrier Corporation                                               | 15/09/2022 | 4151862 | 22195956.2 |        |
| 4151880 | Carl Zeiss SMT GmbH<br>ASML Netherlands B.V.                      | 17/09/2021 | 4151880 | 21197474.6 |        |
| 4152474 | Contemporary Ampere Technology (Hong<br>Kong) Limited             | 28/07/2021 | 4152474 | 21912305.6 |        |
| 4152595 | Panasonic Intellectual Property<br>Management Co., Ltd.           | 25/02/2021 | 4152595 | 21804304.0 |        |
| 4152773 | Bayerische Motoren Werke<br>Aktiengesellschaft                    | 17/09/2021 | 4152773 | 21197347.4 |        |
| 4152795 | Vivo Mobile Communication Co., Ltd.                               | 10/05/2021 | 4152795 | 21803287.8 |        |
| 4152849 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.           | 12/06/2020 | 4152849 | 20940388.0 |        |
| 4153037 | Skin Plastic Lab S.r.l.                                           | 03/05/2021 | 4153037 | 21725820.1 |        |
| 4153285 | Fisher & Paykel Healthcare Limited                                | 19/05/2021 | 4153285 | 21809822.6 |        |
| 4153888 | Schaeffler Technologies AG & Co. KG                               | 07/05/2021 | 4153888 | 21808785.6 |        |
| 4154160 | Bill.com, LLC                                                     | 16/04/2021 | 4154160 | 21724847.5 |        |
| 4154438 | Huawei Technologies Co., Ltd.                                     | 26/06/2020 | 4154438 | 20735334.3 |        |
| 4154846 | Ivoclar Vivadent AG                                               | 23/09/2021 | 4154846 | 21198634.4 | German |
| 4154850 | Shanghai Reach Medical Instrument<br>Co.,Ltd                      | 07/01/2022 | 4154850 | 22801328.0 |        |
| 4154966 | Zhejiang University                                               | 03/02/2021 | 4154966 | 21923705.4 |        |
| 4155160 | Siemens Mobility Austria GmbH                                     | 14/09/2022 | 4155160 | 22195511.5 | German |
| 4155171 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                | 07/09/2022 | 4155171 | 22194326.9 |        |
| 4155194 | Airbus Helicopters                                                | 13/09/2022 | 4155194 | 22195269.0 | French |
| 4155544 | Eaton Intelligent Power Limited                                   | 23/09/2022 | 4155544 | 22197546.9 |        |

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|---------|-------------------------------------------------------|------------|---------|------------|--------|
| 4155696 | STMicroelectronics S.r.l.                             | 13/09/2022 | 4155696 | 22195319.3 |        |
| 4155873 | Qingdao Pico Technology Co., Ltd.                     | 30/06/2021 | 4155873 | 21834056.0 |        |
| 4156389 | LG Energy Solution, Ltd.                              | 16/12/2021 | 4156389 | 21911385.9 |        |
| 4156453 | LG ELECTRONICS INC.                                   | 20/05/2021 | 4156453 | 21809333.4 |        |
| 4156790 | Telia Company AB                                      | 21/09/2022 | 4156790 | 22196741.7 |        |
| 4157197 | Roam Robotics Inc.                                    | 27/05/2021 | 4157197 | 21814117.4 |        |
| 4157613 | Hollister Incorporated                                | 04/05/2021 | 4157613 | 21728689.7 |        |
| 4157689 | Ampere SAS                                            | 05/05/2021 | 4157689 | 21724615.6 | French |
|         | NISSAN MOTOR CO., LTD.                                |            |         |            |        |
| 4157836 | Boehringer Ingelheim International GmbH               | 01/06/2021 | 4157836 | 21729875.1 |        |
|         | Vanderbilt University                                 |            |         |            |        |
| 4158207 | Milwaukee Electric Tool Corporation                   | 27/05/2021 | 4158207 | 21814415.2 |        |
| 4158556 | Nokia Technologies Oy                                 | 21/05/2021 | 4158556 | 21818811.8 |        |
| 4158559 | Bayerische Motoren Werke Aktiengesellschaft           | 10/05/2021 | 4158559 | 21725137.0 | German |
| 4158590 | Conceria Pasubio S.p.A.                               | 11/05/2021 | 4158590 | 21727563.5 |        |
| 4158811 | ORANGE                                                | 20/05/2021 | 4158811 | 21733483.8 | French |
| 4158871 | Apple Inc.                                            | 27/05/2021 | 4158871 | 21733339.2 |        |
| 4159087 | Manutti                                               | 30/09/2022 | 4159087 | 22198938.7 |        |
| 4159339 | ANDRITZ Schuler Pressen GmbH                          | 20/09/2022 | 4159339 | 22196538.7 | German |
| 4159370 | GE Vernova Technology GmbH                            | 12/09/2022 | 4159370 | 22195039.7 |        |
| 4159455 | FUJIFILM Corporation                                  | 24/05/2021 | 4159455 | 21812322.2 |        |
| 4159655 | L.G.L. Electronics S.p.A.                             | 28/09/2022 | 4159655 | 22198457.8 |        |
| 4159680 | Toray Industries, Inc.                                | 24/05/2021 | 4159680 | 21812936.9 |        |
| 4159692 | Hias How2O AS                                         | 28/05/2015 | 4159692 | 22195719.4 |        |
| 4159740 | Shin-Etsu Chemical Co., Ltd.                          | 29/09/2022 | 4159740 | 22198564.1 |        |
| 4159988 | Hamilton Sundstrand Corporation                       | 26/09/2022 | 4159988 | 22197824.0 |        |
| 4160123 | Qingdao Haier Refrigerator Co., Ltd                   | 18/12/2020 | 4160123 | 20932467.2 |        |
|         | Haier Smart Home Co., Ltd.                            |            |         |            |        |
| 4160214 | F. Hoffmann-La Roche AG                               | 29/09/2021 | 4160214 | 21382873.4 |        |
| 4160310 | Sony Interactive Entertainment Inc.                   | 26/05/2021 | 4160310 | 21814286.7 |        |
| 4160418 | SAP SE                                                | 26/09/2022 | 4160418 | 22197725.9 |        |
| 4160523 | Siemens Healthineers AG                               | 29/09/2021 | 4160523 | 21199847.1 | German |
| 4160529 | Siemens Healthineers AG                               | 28/09/2022 | 4160529 | 22198252.3 |        |
| 4160591 | GN Hearing A/S                                        | 30/09/2021 | 4160591 | 21200329.7 |        |
| 4160868 | Daikin Industries, Ltd.                               | 27/05/2021 | 4160868 | 21813670.3 |        |
| 4160956 | Huawei Technologies Co., Ltd.                         | 18/06/2021 | 4160956 | 21827032.0 |        |
| 4161814 | Monteiro, Andre Fraser                                | 01/06/2021 | 4161814 | 21734461.3 |        |
| 4162314 | Lumus Ltd.                                            | 24/02/2022 | 4162314 | 22759083.3 |        |
| 4162604 | PROMET-PLAST S.C. Elzbieta Jezewska, Andrzej Jezewski | 28/05/2021 | 4162604 | 21740271.8 |        |
|         | Jezewski, Andrzej                                     |            |         |            |        |
| 4162745 | QUALCOMM INCORPORATED                                 | 18/05/2021 | 4162745 | 21733261.8 |        |
| 4163324 | Unitika Ltd.                                          | 25/03/2022 | 4163324 | 22780570.2 |        |
| 4163340 | Sakata INX Corp.                                      | 06/09/2019 | 4163340 | 22203854.9 |        |
| 4163727 | Ricoh Company, Ltd.                                   | 13/09/2022 | 4163727 | 22195270.8 |        |
| 4164047 | LG Energy Solution, Ltd.                              | 09/06/2022 | 4164047 | 22820571.2 |        |
| 4164203 | Samsung Electronics Co., Ltd.                         | 10/09/2013 | 4164203 | 22209753.7 |        |
| 4164295 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  | 28/04/2017 | 4164295 | 22209655.4 |        |
| 4164560 | iSTAR Medical SA                                      | 09/09/2021 | 4164560 | 21762990.6 |        |
| 4164583 | Vivolab AB                                            | 14/06/2021 | 4164583 | 21734556.0 |        |
| 4164881 | Saint-Gobain Sekurit France                           | 10/06/2021 | 4164881 | 21731171.1 | German |
| 4165299 | VESTAS WIND SYSTEMS A/S                               | 10/06/2021 | 4165299 | 21734276.5 |        |
| 4165376 | Argo AI, LLC                                          | 14/06/2021 | 4165376 | 21825476.1 |        |
| 4165422 | Stodia GmbH                                           | 15/06/2021 | 4165422 | 21734078.5 | German |
|         | VOLKSWAGEN AKTIENGESELLSCHAFT                         |            |         |            |        |
| 4165482 | TRUMPF SE + Co. KG                                    | 09/06/2021 | 4165482 | 21732252.8 | German |
|         | TRUMPF Werkzeugmaschinen SE + Co. KG                  |            |         |            |        |
| 4165484 | Siemens Aktiengesellschaft                            | 03/08/2021 | 4165484 | 21755733.9 | German |

|         |                                                                                             |            |         |            |        |
|---------|---------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4165780 | LogNovations Holdings, LLC                                                                  | 01/06/2021 | 4165780 | 21821682.8 |        |
| 4165928 | Apple Inc.                                                                                  | 05/08/2020 | 4165928 | 20948790.9 |        |
| 4166231 | NIPPON STEEL Chemical & Material Co., Ltd.                                                  | 21/05/2021 | 4166231 | 21821221.5 |        |
| 4166811 | China Faw Co., Ltd.                                                                         | 31/05/2021 | 4166811 | 21822017.6 |        |
| 4167308 | Eve Energy Co., Ltd.                                                                        | 23/12/2021 | 4167308 | 21919131.9 |        |
| 4167363 | LG Energy Solution, Ltd.                                                                    | 08/09/2021 | 4167363 | 21869625.0 |        |
| 4167473 | Huawei Digital Power Technologies Co., Ltd.                                                 | 28/05/2018 | 4167473 | 22198095.6 |        |
| 4167837 | HONEYWELL INTERNATIONAL INC.                                                                | 14/06/2021 | 4167837 | 21825953.9 |        |
| 4168250 | Hewlett-Packard Development Company, L.P.                                                   | 10/08/2020 | 4168250 | 20949653.8 |        |
| 4168462 | Arkema France                                                                               | 19/06/2020 | 4168462 | 20941348.3 |        |
| 4168702 | Sjöberg, Stefan                                                                             | 18/06/2021 | 4168702 | 21759124.7 |        |
| 4168728 | Sturm Ruger&Company, Inc.                                                                   | 26/01/2021 | 4168728 | 21829239.9 |        |
| 4169437 | Carl Zeiss Vision International GmbH                                                        | 23/06/2021 | 4169437 | 22206465.1 |        |
| 4169810 | MAZDA MOTOR CORPORATION                                                                     | 08/09/2022 | 4169810 | 22194521.5 |        |
| 4170418 | BOE Technology Group Co., Ltd.<br>Hefei Xinsheng Optoelectronics<br>Technology Co., Ltd.    | 29/09/2020 | 4170418 | 20955599.4 |        |
| 4170642 | Samsung Display Co., Ltd.                                                                   | 06/09/2022 | 4170642 | 22194021.6 |        |
| 4171198 | Tree-Tube Ltd.                                                                              | 24/06/2021 | 4171198 | 21828317.4 |        |
| 4171900 | Seattle Food Geek Applied Sciences, LLC                                                     | 29/06/2021 | 4171900 | 21831532.3 |        |
| 4172064 | Graphic Packaging International, LLC                                                        | 22/06/2021 | 4172064 | 21829938.6 |        |
| 4172155 | Lightwave Logic, Inc.                                                                       | 25/06/2021 | 4172155 | 21752782.9 |        |
| 4172281 | Dow Global Technologies LLC                                                                 | 28/06/2020 | 4172281 | 20943026.3 |        |
| 4172899 | culture4life GmbH                                                                           | 29/09/2021 | 4172899 | 21786814.0 | German |
| 4173136 | QUALCOMM INCORPORATED                                                                       | 13/05/2021 | 4173136 | 21729762.1 |        |
| 4173475 | Plattner, Wolfgang                                                                          | 25/07/2022 | 4173475 | 22186750.0 | German |
| 4174041 | SEKISUI CHEMICAL CO., LTD.                                                                  | 23/06/2021 | 4174041 | 21828861.1 |        |
| 4174070 | Neusco Biotech Limited                                                                      | 25/06/2021 | 4174070 | 21834246.7 |        |
| 4174329 | PRATT & WHITNEY CANADA CORP.                                                                | 31/10/2022 | 4174329 | 22204816.7 |        |
| 4174370 | Ichikoh Industries, Ltd.                                                                    | 22/06/2021 | 4174370 | 21834182.4 |        |
| 4174774 | Samsung Electronics Co., Ltd.                                                               | 20/04/2022 | 4174774 | 22169094.4 |        |
| 4175072 | Huawei Technologies Co., Ltd.                                                               | 21/05/2021 | 4175072 | 21812284.4 |        |
| 4175633 | B.S.R.C. "Alexander Fleming"<br>Uni-Pharma Kleon Tsetis Pharmaceutical<br>Laboratories S.A. | 02/07/2021 | 4175633 | 21740607.3 |        |
| 4175766 | Dürr Systems AG, Stuttgart                                                                  | 30/06/2021 | 4175766 | 21766564.5 | German |
| 4176307 | e-Vision Smart Optics Inc.                                                                  | 19/08/2021 | 4176307 | 21859118.8 |        |
| 4177310 | DIC Corporation                                                                             | 10/06/2021 | 4177310 | 21833872.1 |        |
| 4177660 | Largan Precision Co. Ltd.                                                                   | 27/10/2022 | 4177660 | 22204211.1 |        |
| 4177999 | LG Energy Solution, Ltd.                                                                    | 21/07/2022 | 4177999 | 22847522.4 |        |
| 4178097 | Huawei Digital Power Technologies Co., Ltd.                                                 | 22/03/2021 | 4178097 | 21846040.0 |        |
| 4178536 | Nano Precision Medical, Inc.                                                                | 06/07/2021 | 4178536 | 21751893.5 |        |
| 4178858 | Safran Seats USA LLC                                                                        | 09/07/2020 | 4178858 | 20750048.9 |        |
| 4180611 | PHC Holdings Corporation                                                                    | 02/02/2022 | 4180611 | 22752657.1 |        |
| 4180626 | GE Vernova Technology GmbH                                                                  | 26/08/2022 | 4180626 | 22192282.6 |        |
| 4180802 | Consejo Superior de Investigaciones Cientificas<br>Universidad Complutense De Madrid        | 09/07/2021 | 4180802 | 21837464.3 |        |
| 4180874 | Toshiba TEC Kabushiki Kaisha                                                                | 19/09/2022 | 4180874 | 22196312.7 |        |
| 4181344 | Huawei Digital Power Technologies Co., Ltd.                                                 | 26/07/2021 | 4181344 | 21851267.1 |        |
| 4181379 | Huawei Digital Power Technologies Co., Ltd.                                                 | 01/07/2021 | 4181379 | 21851158.2 |        |
| 4181798 | BALT USA LLC                                                                                | 17/08/2021 | 4181798 | 21859301.0 |        |
| 4181843 | Alcon Inc.                                                                                  | 08/07/2021 | 4181843 | 21749298.2 |        |
| 4182017 | Likhacheva, Anna O., M.D.                                                                   | 16/08/2021 | 4182017 | 21769237.5 |        |
| 4182051 | Johnson Matthey Public Limited Company                                                      | 28/04/2021 | 4182051 | 21724739.4 |        |

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| 4182594 | Saudi Arabian Oil Company<br>TWI Limited                                                                                                      | 20/07/2021 | 4182594 | 21755178.7 |        |
| 4183153 | Apple Inc.                                                                                                                                    | 19/08/2021 | 4183153 | 21769293.8 |        |
| 4183609 | MANITOU BF                                                                                                                                    | 10/11/2022 | 4183609 | 22206721.7 | French |
| 4184048 | Ventilation Products and Ideas BVBA<br>Projimmo BVBA                                                                                          | 17/11/2022 | 4184048 | 22208128.3 |        |
| 4184438 | Snap Inc.                                                                                                                                     | 30/08/2017 | 4184438 | 22207621.8 |        |
| 4184608 | LG Energy Solution, Ltd.                                                                                                                      | 23/09/2021 | 4184608 | 21869827.2 |        |
| 4184610 | Guangdong Brunp Recycling Technology<br>Co., Ltd<br>Hunan Brunp Recycling Technology Co.,<br>Ltd.<br>Hunan Brunp Vehicles Recycling Co., Ltd. | 29/07/2021 | 4184610 | 21850024.7 |        |
| 4184731 | Rittal GmbH & Co. KG                                                                                                                          | 26/09/2022 | 4184731 | 22197761.4 | German |
| 4185053 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                                                       | 18/09/2018 | 4185053 | 22216391.7 |        |
| 4185081 | Huawei Technologies Co. Ltd.                                                                                                                  | 07/08/2020 | 4185081 | 20947848.6 |        |
| 4185934 | Huawei Technologies Co. Ltd.                                                                                                                  | 30/06/2021 | 4185934 | 21849988.7 |        |
| 4186185 | TDIS Intellectual Properties B.V.                                                                                                             | 24/03/2021 | 4186185 | 21714967.3 |        |
| 4186647 | Rorze Corporation                                                                                                                             | 12/05/2021 | 4186647 | 21871891.4 |        |
| 4186765 | Tencent Technology (Shenzhen) Company<br>Limited                                                                                              | 15/12/2021 | 4186765 | 21940577.6 |        |
| 4186769 | Mobileye Vision Technologies Ltd.                                                                                                             | 17/04/2018 | 4186769 | 22215467.6 |        |
| 4186846 | Manitowoc Crane Group France SAS                                                                                                              | 22/08/2022 | 4186846 | 22191441.9 | German |
| 4187208 | ABB Schweiz AG                                                                                                                                | 22/11/2022 | 4187208 | 22208699.3 | German |
| 4187528 | Samsung Display Co., Ltd.                                                                                                                     | 29/11/2022 | 4187528 | 22210221.2 |        |
| 4187570 | AIRBUS OPERATIONS (S.A.S.)                                                                                                                    | 21/11/2022 | 4187570 | 22208456.8 | French |
| 4187926 | Sonova AG                                                                                                                                     | 30/11/2021 | 4187926 | 21211356.7 |        |
| 4188143 | FXI Inc. Limited                                                                                                                              | 30/07/2021 | 4188143 | 21762099.6 |        |
| 4188183 | BSH Hausgeräte GmbH                                                                                                                           | 14/07/2021 | 4188183 | 21743488.5 | German |
| 4188510 | Teleflex Life Sciences LLC                                                                                                                    | 15/07/2021 | 4188510 | 21752353.9 |        |
| 4189189 | fischerwerke GmbH & Co. KG                                                                                                                    | 14/07/2021 | 4189189 | 21745950.2 | German |
| 4189348 | BSH Hausgeräte GmbH                                                                                                                           | 08/07/2021 | 4189348 | 21740067.0 | German |
| 4189376 | Fundació Institut de Bioenginyeria de<br>Catalunya<br>Universitat de Barcelona<br>Consorcio Centro de Investigación<br>Biomédica en Red       | 29/07/2021 | 4189376 | 21745833.0 |        |
| 4190053 | QUALCOMM INCORPORATED                                                                                                                         | 17/06/2021 | 4190053 | 21746848.7 |        |
| 4190267 | F. MED Co., Ltd.                                                                                                                              | 30/07/2020 | 4190267 | 20947001.2 |        |
| 4190539 | Aecc Commercial Aircraft Engine Co., Ltd.                                                                                                     | 12/04/2021 | 4190539 | 21848590.2 |        |
| 4190665 | Greenbrier Poland sp. z o.o.                                                                                                                  | 27/07/2022 | 4190665 | 22187355.7 |        |
| 4190670 | Toshiba TEC Kabushiki Kaisha                                                                                                                  | 06/07/2021 | 4190670 | 21850920.6 |        |
| 4191385 | Snap Inc.                                                                                                                                     | 09/01/2018 | 4191385 | 23153345.6 |        |
| 4191435 | Samsung Electronics Co., Ltd.                                                                                                                 | 09/09/2021 | 4191435 | 21877861.1 |        |
| 4191562 | Google LLC                                                                                                                                    | 27/08/2018 | 4191562 | 23151405.0 |        |
| 4191577 | Samsung Electronics Co., Ltd.                                                                                                                 | 02/09/2021 | 4191577 | 21872763.4 |        |
| 4192109 | NTT, Inc.                                                                                                                                     | 27/07/2020 | 4192109 | 20947656.3 |        |
| 4192559 | Bard Peripheral Vascular, Inc.                                                                                                                | 09/09/2020 | 4192559 | 20780441.0 |        |
| 4192923 | Hercules LLC                                                                                                                                  | 06/08/2021 | 4192923 | 21853336.2 |        |
| 4193362 | Grail, Inc.                                                                                                                                   | 17/09/2021 | 4193362 | 21790728.6 |        |
| 4194047 | Neurive Co., Ltd.                                                                                                                             | 01/12/2021 | 4194047 | 21895914.6 |        |
| 4194249 | Xiamen Yaxon Zhilian Technology Co.,<br>Ltd.                                                                                                  | 23/07/2021 | 4194249 | 21852315.7 |        |
| 4194618 | KOBELCO CONSTRUCTION<br>MACHINERY CO., LTD.                                                                                                   | 30/08/2021 | 4194618 | 21872100.9 |        |
| 4194938 | Viavi Solutions Inc.                                                                                                                          | 07/12/2022 | 4194938 | 22212077.6 |        |
| 4195265 | Samsung Electronics Co., Ltd.                                                                                                                 | 01/09/2021 | 4195265 | 21886530.1 |        |
| 4195277 | LG Display Co., Ltd.                                                                                                                          | 11/08/2022 | 4195277 | 22189874.5 |        |
| 4195312 | LG Energy Solution, Ltd.                                                                                                                      | 23/09/2021 | 4195312 | 21869828.0 |        |
| 4195583 | BIGO TECHNOLOGY PTE. LTD.                                                                                                                     | 28/07/2021 | 4195583 | 21852390.0 |        |
| 4196359 | ZF CV Systems Global GmbH                                                                                                                     | 19/07/2021 | 4196359 | 21746037.7 | German |

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| 4196874 | Microsoft Technology Licensing, LLC                                                                                  | 29/04/2021 | 4196874 | 21726510.7 |        |
| 4197096 | Advanced Neuromodulation Systems, Inc.                                                                               | 12/08/2021 | 4197096 | 21856690.9 |        |
| 4197468 | BIOSENSE WEBSTER (ISRAEL) LTD.                                                                                       | 16/12/2022 | 4197468 | 22214041.0 |        |
| 4197716 | Fameccanica.Data S.p.A.                                                                                              | 15/12/2021 | 4197716 | 21214853.0 |        |
| 4197718 | CREATIVE TECHNOLOGY CORPORATION                                                                                      | 22/09/2021 | 4197718 | 21875372.1 |        |
| 4198387 | CAMAJORA S.r.l.                                                                                                      | 29/11/2022 | 4198387 | 22210165.1 |        |
| 4198576 | FEI Company                                                                                                          | 14/12/2021 | 4198576 | 21214549.4 |        |
| 4198604 | Thermo Electron Scientific Instruments LLC                                                                           | 12/12/2022 | 4198604 | 22212741.7 |        |
| 4198720 | Huawei Technologies Co. Ltd.                                                                                         | 05/08/2021 | 4198720 | 21860092.2 |        |
| 4199271 | Wieland Electric GmbH                                                                                                | 19/12/2022 | 4199271 | 22214585.6 | German |
| 4199385 | Huawei Technologies Co. Ltd.                                                                                         | 11/06/2021 | 4199385 | 21859780.5 |        |
| 4199591 | LG Electronics Inc.                                                                                                  | 01/09/2021 | 4199591 | 21864634.7 |        |
| 4200778 | Salesforce, Inc.                                                                                                     | 19/08/2021 | 4200778 | 21778267.1 |        |
| 4201123 | QUALCOMM INCORPORATED                                                                                                | 18/08/2021 | 4201123 | 21770096.2 |        |
| 4201188 | Pöttinger Landtechnik GmbH                                                                                           | 07/09/2022 | 4201188 | 22194322.8 | German |
| 4201227 | COFFEE STAR INDUCTION S.R.L.                                                                                         | 07/12/2022 | 4201227 | 22211884.6 |        |
| 4201319 | Samsung Electronics Co., Ltd.                                                                                        | 05/01/2022 | 4201319 | 22736827.1 |        |
| 4201804 | Yamaha Hatsudoki Kabushiki Kaisha                                                                                    | 12/12/2022 | 4201804 | 22212804.3 |        |
| 4201806 | Yamaha Hatsudoki Kabushiki Kaisha                                                                                    | 23/09/2022 | 4201806 | 22197460.3 |        |
| 4202931 | United Microelectronics Corp.                                                                                        | 14/05/2020 | 4202931 | 23151392.0 |        |
| 4203182 | Honor Device Co., Ltd.                                                                                               | 09/02/2022 | 4203182 | 22790690.6 |        |
| 4203383 | nChain Licensing AG                                                                                                  | 21/04/2020 | 4203383 | 23155953.5 |        |
| 4203730 | RAI Strategic Holdings, Inc.                                                                                         | 23/09/2021 | 4203730 | 21787041.9 |        |
| 4203821 | Bard Access Systems, Inc.                                                                                            | 31/08/2021 | 4203821 | 21790640.3 |        |
| 4203854 | Medtronic Vascular, Inc.                                                                                             | 25/08/2021 | 4203854 | 21773219.7 |        |
| 4204890 | Apple Inc.                                                                                                           | 16/07/2021 | 4204890 | 21755161.3 |        |
| 4204919 | Google LLC                                                                                                           | 26/08/2021 | 4204919 | 21773239.5 |        |
| 4205011 | Siemens Industry Software Inc.                                                                                       | 31/08/2020 | 4205011 | 20775451.6 |        |
| 4205240 | Stäubli Electrical Connectors AG                                                                                     | 17/08/2021 | 4205240 | 21762479.0 | German |
| 4205412 | Sony Interactive Entertainment Inc.                                                                                  | 15/09/2021 | 4205412 | 21778544.3 |        |
| 4205480 | QUALCOMM Incorporated                                                                                                | 22/07/2021 | 4205480 | 21755333.8 |        |
| 4205807 | Paul Hartmann AG                                                                                                     | 30/12/2021 | 4205807 | 21218312.3 | German |
| 4205808 | Paul Hartmann AG                                                                                                     | 30/12/2021 | 4205808 | 21218326.3 | German |
| 4206280 | Lotte Chemical Corporation                                                                                           | 26/08/2021 | 4206280 | 21862092.0 |        |
| 4206283 | Kaneka Corporation                                                                                                   | 12/08/2021 | 4206283 | 21861264.6 |        |
| 4206534 | General Electric Company                                                                                             | 19/04/2022 | 4206534 | 22168877.3 |        |
| 4206685 | Japan Aviation Electronics Industry, Limited                                                                         | 12/07/2021 | 4206685 | 21877194.7 |        |
| 4206688 | INSTITUTE OF SCIENCE TOKYO<br>Max-Planck-Gesellschaft zur Förderung der Wissenschaften E. V.                         | 28/12/2021 | 4206688 | 21217980.8 |        |
| 4206806 | Humboldt-Universität zu Berlin<br>BOE Technology Group Co., Ltd.<br>Beijing BOE Optoelectronics Technology Co., Ltd. | 21/04/2021 | 4206806 | 21937326.3 |        |
| 4206818 | Beijing Xiaomi Mobile Software Co., Ltd.                                                                             | 31/05/2022 | 4206818 | 22176473.1 |        |
| 4207168 | LG Display Co., Ltd.                                                                                                 | 31/10/2022 | 4207168 | 22204737.5 |        |
| 4207196 | Audio-Technica Corporation                                                                                           | 12/10/2021 | 4207196 | 21891569.2 |        |
| 4207446 | LG Energy Solution, Ltd.                                                                                             | 02/08/2022 | 4207446 | 22867567.4 |        |
| 4208347 | Hewlett-Packard Development Company, L.P.                                                                            | 03/09/2020 | 4208347 | 20952638.3 |        |
| 4208426 | Carmeuse Technologies<br>Consejo Superior de Investigaciones Científicas (CSIC)                                      | 01/09/2021 | 4208426 | 21769470.2 |        |
| 4208904 | Samsung Electronics Co., Ltd                                                                                         | 01/09/2021 | 4208904 | 21769451.2 |        |
| 4208966 | Nordic Semiconductor ASA                                                                                             | 06/09/2021 | 4208966 | 21773085.2 |        |
| 4209020 | ZTE Corporation                                                                                                      | 01/04/2021 | 4209020 | 21933960.3 |        |
| 4209350 | Koenig & Bauer AG                                                                                                    | 02/06/2020 | 4209350 | 23159100.9 | German |
| 4209396 | Autoliv Development AB                                                                                               | 05/08/2021 | 4209396 | 21864049.8 |        |

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| 4209586 | Daegu Gyeongbuk Institute Of Science and Technology<br>Kyungpook National University Industry-Academic Cooperation Foundation | 02/09/2021 | 4209586 | 21864679.2 |        |
| 4209775 | Friedrich-Alexander-Universität Erlangen-Nürnberg                                                                             | 05/01/2022 | 4209775 | 22150396.4 |        |
| 4210630 | Tepha, Inc.                                                                                                                   | 08/09/2021 | 4210630 | 21791083.5 |        |
| 4210709 | Pharma Cinq, LLC                                                                                                              | 14/09/2021 | 4210709 | 21867793.8 |        |
| 4211273 | Institut de Cancérologie de l'Ouest<br>Institut National de la Santé et de la Recherche Médicale<br>Nantes Université         | 13/09/2021 | 4211273 | 21773619.8 |        |
| 4211332 | Baker Hughes Oilfield Operations, LLC                                                                                         | 03/09/2021 | 4211332 | 21867846.4 |        |
| 4211507 | Munich Surgical Imaging GmbH                                                                                                  | 02/06/2021 | 4211507 | 21730197.7 | German |
| 4211647 | Lucida Medical Ltd.                                                                                                           | 10/09/2021 | 4211647 | 21777837.2 |        |
| 4211649 | Given Imaging Ltd.                                                                                                            | 03/09/2021 | 4211649 | 21786601.1 |        |
| 4212073 | Kohler Co.                                                                                                                    | 22/12/2022 | 4212073 | 22215841.2 |        |
| 4212217 | LG Electronics Inc.                                                                                                           | 08/09/2021 | 4212217 | 21867128.7 |        |
| 4212776 | General Electric Company                                                                                                      | 08/04/2022 | 4212776 | 22167304.9 |        |
| 4212781 | Collins Engine Nozzles, Inc.                                                                                                  | 10/12/2019 | 4212781 | 23161256.5 |        |
| 4212803 | BSH Hausgeräte GmbH                                                                                                           | 13/12/2022 | 4212803 | 22213184.9 |        |
| 4212999 | Honor Device Co., Ltd.                                                                                                        | 07/09/2022 | 4212999 | 22857074.3 |        |
| 4213513 | Huawei Technologies Co. Ltd.                                                                                                  | 23/09/2021 | 4213513 | 21874331.8 |        |
| 4213651 | JT International SA                                                                                                           | 17/09/2021 | 4213651 | 21777341.5 |        |
| 4213770 | New York Society for the Relief of the Ruptured and Crippled, Maintaining the Hospital for Special Surgery                    | 15/09/2021 | 4213770 | 21870143.1 |        |
| 4213774 | Restore Endosystems, LLC                                                                                                      | 16/09/2021 | 4213774 | 21870220.7 |        |
| 4213999 | Waters Technologies Corporation                                                                                               | 10/09/2021 | 4213999 | 21785982.6 |        |
| 4214096 | Bayerische Motoren Werke Aktiengesellschaft                                                                                   | 30/07/2021 | 4214096 | 21763239.7 | German |
| 4214107 | Givi S.p.A.                                                                                                                   | 26/08/2021 | 4214107 | 21773656.0 |        |
| 4214120 | AMSL Innovations Pty Ltd                                                                                                      | 17/09/2021 | 4214120 | 21867954.6 |        |
| 4214339 | ArcelorMittal                                                                                                                 | 15/09/2020 | 4214339 | 20775422.7 |        |
| 4214525 | Brinkmann Pumpen<br>K.H. Brinkmann GmbH & Co. KG                                                                              | 25/08/2021 | 4214525 | 21769925.5 | German |
| 4215694 | Max Co., Ltd.                                                                                                                 | 20/01/2023 | 4215694 | 23152684.9 |        |
| 4216198 | SOLUM CO., LTD.                                                                                                               | 18/01/2023 | 4216198 | 23152183.2 |        |
| 4216203 | Samsung Display Co., Ltd.                                                                                                     | 30/11/2022 | 4216203 | 22210460.6 |        |
| 4216567 | Huawei Technologies Co. Ltd.                                                                                                  | 28/09/2021 | 4216567 | 21884864.6 |        |
| 4216744 | Philip Morris Products S.A.                                                                                                   | 21/09/2021 | 4216744 | 21782696.5 |        |
| 4216745 | Philip Morris Products, S.A.                                                                                                  | 22/09/2021 | 4216745 | 21782723.7 |        |
| 4216842 | BOSTON SCIENTIFIC LIMITED                                                                                                     | 21/09/2021 | 4216842 | 21786581.5 |        |
| 4216894 | The Procter & Gamble Company                                                                                                  | 22/09/2021 | 4216894 | 21798246.1 |        |
| 4217143 | ABB SCHWEIZ AG                                                                                                                | 28/09/2020 | 4217143 | 20954724.9 |        |
| 4217154 | Samsung Electronics Co., Ltd.                                                                                                 | 21/02/2022 | 4217154 | 22763516.6 |        |
| 4217287 | Closure Systems International Inc.                                                                                            | 20/09/2021 | 4217287 | 21798491.3 |        |
| 4217422 | Dow Global Technologies LLC<br>Dow Silicones Corporation                                                                      | 23/09/2020 | 4217422 | 20954413.9 |        |
| 4217696 | Johnson Matthey Davy Technologies Limited                                                                                     | 24/09/2021 | 4217696 | 21783336.7 |        |
| 4217705 | GE Vernova Technology GmbH                                                                                                    | 22/09/2021 | 4217705 | 21798532.4 |        |
| 4217848 | Cisco Technology, Inc.                                                                                                        | 16/09/2021 | 4217848 | 21794276.2 |        |
| 4218140 | Eaton Intelligent Power Limited                                                                                               | 28/09/2020 | 4218140 | 20781366.8 |        |
| 4218215 | Huawei Technologies Co. Ltd.                                                                                                  | 21/10/2021 | 4218215 | 21806103.4 |        |
| 4218441 | Shenzhen First Union Technology Co., Ltd.                                                                                     | 24/09/2021 | 4218441 | 21871602.5 |        |
| 4218491 | Grown-Up Licenses Limited                                                                                                     | 25/01/2023 | 4218491 | 23153202.9 |        |
| 4219628 | Kaneka Corporation                                                                                                            | 16/09/2021 | 4219628 | 21872312.0 |        |
| 4219824 | LG Electronics Inc.                                                                                                           | 30/03/2021 | 4219824 | 23158745.2 |        |
| 4220111 | LG Energy Solution, Ltd.                                                                                                      | 26/07/2022 | 4220111 | 22849850.7 |        |
| 4220271 | Leica Microsystems CMS GmbH                                                                                                   | 28/01/2022 | 4220271 | 22153964.6 |        |
| 4220293 | Furcifer Inc.                                                                                                                 | 30/10/2019 | 4220293 | 23164353.7 |        |



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| 4220362 | Samsung Display Co., Ltd.                                        | 12/12/2019 | 4220362 | 23165874.1 |        |
| 4220609 | Sato Holdings Kabushiki Kaisha                                   | 15/09/2021 | 4220609 | 21872289.0 |        |
| 4220979 | Siemens Aktiengesellschaft                                       | 31/01/2022 | 4220979 | 22154267.3 |        |
| 4221021 | Beijing Xiaomi Mobile Software Co., Ltd.                         | 10/08/2018 | 4221021 | 23158230.5 |        |
| 4221150 | Huawei Technologies Co. Ltd.                                     | 13/04/2020 | 4221150 | 23178378.8 |        |
| 4221650 | AMO Development, LLC                                             | 28/09/2021 | 4221650 | 21789829.5 |        |
| 4221807 | CareFusion 303, Inc.                                             | 23/09/2021 | 4221807 | 21791555.2 |        |
| 4221883 | Illumina, Inc.                                                   | 27/09/2021 | 4221883 | 21795139.1 |        |
| 4222000 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                | 28/09/2021 | 4222000 | 21798084.6 | French |
| 4222001 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                | 28/09/2021 | 4222001 | 21798083.8 | French |
| 4222153 | Samsung Display Co., Ltd.                                        | 28/09/2021 | 4222153 | 21793858.8 |        |
| 4222357 | Streparava S.p.A. Con Socio Unico                                | 21/09/2021 | 4222357 | 21790992.8 |        |
| 4222952 | Tripleye GmbH                                                    | 28/09/2021 | 4222952 | 21785833.1 | German |
| 4223026 | Nokia Technologies Oy                                            | 07/09/2021 | 4223026 | 21773352.6 |        |
| 4223468 | Isopan S.p.A.                                                    | 08/02/2023 | 4223468 | 23155636.6 |        |
| 4223672 | ATS Corporation                                                  | 03/02/2023 | 4223672 | 23154866.0 |        |
| 4223718 | Sika Technology AG                                               | 28/05/2020 | 4223718 | 23166747.8 | German |
| 4223728 | Daicel Corporation                                               | 30/09/2021 | 4223728 | 21875758.1 |        |
| 4223857 | Idemitsu Kosan Co.,Ltd.                                          | 30/09/2021 | 4223857 | 21875782.1 |        |
| 4223936 | Centrum Pæle A/S                                                 | 03/02/2022 | 4223936 | 22155045.2 |        |
| 4223951 | Aziz, Saqib Hashim<br>Gengnagel, Christoph<br>Alexander, Bradley | 03/02/2022 | 4223951 | 22155033.8 | German |
| 4224134 | Dai Nippon Printing Co., Ltd.                                    | 24/11/2020 | 4224134 | 20956365.9 |        |
| 4224137 | Kokusai Keisokuki Kabushiki Kaisha                               | 29/09/2021 | 4224137 | 21875695.5 |        |
| 4224177 | General Electric Company                                         | 09/12/2022 | 4224177 | 22212655.9 |        |
| 4224192 | Siemens Healthineers AG                                          | 02/02/2022 | 4224192 | 22154813.4 |        |
| 4224270 | Stiga S.p.A. in breve anche St. S.p.A.                           | 02/02/2023 | 4224270 | 23154712.6 |        |
| 4224285 | STMicroelectronics S.r.l.                                        | 17/05/2018 | 4224285 | 23175613.1 |        |
| 4224423 | Microsoft Technology Licensing LLC                               | 14/05/2019 | 4224423 | 23166898.9 |        |
| 4225287 | PAUL SCHERRER INSTITUT                                           | 21/09/2021 | 4225287 | 21786342.2 |        |
| 4225615 | Elmos Semiconductor SE                                           | 08/09/2021 | 4225615 | 21777627.7 | German |
| 4226060 | Eurobearings S.r.l.                                              | 30/09/2021 | 4226060 | 21787065.8 |        |
| 4226310 | Haulotte Group                                                   | 07/10/2021 | 4226310 | 21789711.5 | French |
| 4226424 | International Business Machines<br>Corporation                   | 14/09/2021 | 4226424 | 21777693.9 |        |
| 4227469 | Geberit International AG                                         | 28/05/2021 | 4227469 | 23166908.6 | German |
| 4227694 | STMicroelectronics S.r.l.                                        | 27/01/2023 | 4227694 | 23153627.7 |        |
| 4227726 | Shenzhen Yinwang Intelligent Technologies<br>Co., Ltd.           | 31/10/2020 | 4227726 | 20959320.1 |        |
| 4228083 | LG Energy Solution, Ltd.                                         | 14/06/2022 | 4228083 | 22825288.8 |        |
| 4228297 | Samsung Electronics Co., Ltd.                                    | 28/09/2021 | 4228297 | 21892127.8 |        |
| 4228515 | Wuhan United Imaging Healthcare Co.,<br>Ltd.                     | 29/12/2020 | 4228515 | 20951282.1 |        |
| 4228939 | Robert Bosch GmbH                                                | 03/08/2021 | 4228939 | 21755731.3 | German |
| 4230017 | Deere & Company                                                  | 15/02/2023 | 4230017 | 23156817.1 |        |
| 4230381 | KHS GmbH                                                         | 29/09/2022 | 4230381 | 22198641.7 | German |
| 4230396 | Samsonite IP Holdings S.à r.l.                                   | 15/03/2018 | 4230396 | 23184840.9 |        |
| 4230496 | Murata Machinery, Ltd.                                           | 02/09/2021 | 4230496 | 21894290.2 |        |
| 4230943 | Hamilton Sundstrand Corporation                                  | 01/09/2020 | 4230943 | 23181540.8 |        |
| 4231343 | United Microelectronics Corp.                                    | 11/08/2022 | 4231343 | 22190014.5 |        |
| 4231681 | Vivo Mobile Communication Co., Ltd.                              | 15/12/2021 | 4231681 | 21905735.3 |        |
| 4231869 | Elitas, Edip Ali                                                 | 05/11/2020 | 4231869 | 20931813.8 |        |
| 4232205 | HUSQVARNA AB                                                     | 28/09/2021 | 4232205 | 21795168.0 |        |
| 4232626 | Borsoi S.r.l.                                                    | 20/10/2021 | 4232626 | 21799108.2 |        |
| 4232764 | Senseair AB                                                      | 18/10/2021 | 4232764 | 21883410.9 |        |
| 4232782 | Endress+Hauser Flowtec AG                                        | 23/09/2021 | 4232782 | 21783213.8 | German |
| 4232870 | Manufacturing Resources International, Inc.                      | 22/10/2021 | 4232870 | 21884034.6 |        |
| 4233589 | Shenzhen Smoore Technology Limited                               | 10/01/2023 | 4233589 | 23151021.5 |        |
| 4233644 | LG Electronics Inc.                                              | 19/12/2017 | 4233644 | 23171038.5 |        |

|         |                                                               |            |         |            |        |
|---------|---------------------------------------------------------------|------------|---------|------------|--------|
| 4233809 | Onpoint Vision, Inc.                                          | 22/09/2015 | 4233809 | 23175378.1 | German |
| 4234054 | Angel Playing Cards Co., Ltd.                                 | 08/03/2019 | 4234054 | 23179726.7 |        |
| 4234156 | Silteetra GmbH                                                | 27/11/2015 | 4234156 | 23168690.8 |        |
| 4234157 | Contemporary Amperex Technology (Hong Kong) Limited           | 16/02/2023 | 4234157 | 23157060.7 |        |
| 4234968 | Kabushiki Kaisha F.C.C.                                       | 04/12/2019 | 4234968 | 23173980.6 |        |
| 4235115 | Hamilton Sundstrand Corporation                               | 12/09/2019 | 4235115 | 23180579.7 |        |
| 4235461 | Wix.com Ltd.                                                  | 24/07/2018 | 4235461 | 23180890.8 |        |
| 4235497 | WCM Industries, Inc.                                          | 23/02/2023 | 4235497 | 23158356.8 |        |
| 4235595 | Leica Biosystems Imaging, Inc.                                | 27/02/2023 | 4235595 | 23158897.1 |        |
| 4235713 | Hitachi Energy Ltd                                            | 25/02/2022 | 4235713 | 22158980.7 |        |
| 4235805 | Zhejiang Jinko Solar Co., Ltd.                                | 10/05/2022 | 4235805 | 22172642.5 | French |
| 4235812 | Ja Solar Technology Yangzhou Co., Ltd.                        | 24/02/2023 | 4235812 | 23158385.7 |        |
| 4235915 | Dana Canada Corporation                                       | 17/12/2015 | 4235915 | 23161626.9 |        |
| 4236280 | QUALCOMM Incorporated                                         | 04/03/2010 | 4236280 | 23175370.8 |        |
| 4236320 | LG Electronics Inc.                                           | 06/12/2019 | 4236320 | 23176981.1 |        |
| 4236594 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.          | 01/11/2019 | 4236594 | 23176509.0 |        |
| 4236827 | Cilag GmbH International                                      | 25/10/2022 | 4236827 | 22800814.0 |        |
| 4237315 | Ampere SAS                                                    | 28/09/2021 | 4237315 | 21783511.5 |        |
|         | NISSAN MOTOR CO., LTD.                                        |            |         |            |        |
| 4237698 | Stellantis Auto SAS                                           | 14/09/2021 | 4237698 | 21785942.0 | French |
| 4237915 | Endress+Hauser SE+Co. KG                                      | 13/09/2021 | 4237915 | 21777674.9 |        |
| 4237931 | Microsoft Technology Licensing, LLC                           | 03/09/2021 | 4237931 | 21790661.9 | German |
| 4238025 | United Parcel Service Of America, Inc.                        | 13/10/2021 | 4238025 | 21806886.4 |        |
| 4238182 | Kyocera Avx Components (San Diego), Inc.                      | 06/01/2022 | 4238182 | 22702067.4 | French |
| 4238267 | Telefonaktiebolaget LM Ericsson (publ)                        | 11/03/2021 | 4238267 | 21887034.3 |        |
| 4238383 | QUALCOMM INCORPORATED                                         | 01/11/2021 | 4238383 | 21885354.7 |        |
| 4238609 | RaySearch Laboratories AB                                     | 03/03/2022 | 4238609 | 22159913.7 |        |
| 4238637 | L'OREAL                                                       | 01/12/2015 | 4238637 | 23187219.3 |        |
| 4238834 | SMRC Automotive Holdings Netherlands B.V.                     | 15/02/2023 | 4238834 | 23156724.9 |        |
| 4239287 | KABUSHIKI KAISHA TOSHIBA                                      | 16/01/2023 | 4239287 | 23151732.7 |        |
| 4239415 | Envisics Ltd.                                                 | 15/02/2023 | 4239415 | 23156818.9 |        |
| 4239462 | Samsung Electronics Co., Ltd.                                 | 02/03/2023 | 4239462 | 23159697.4 |        |
| 4239579 | Rutgers, the State University of New Jersey                   |            |         |            |        |
|         | TOYOTA JIDOSHA KABUSHIKI KAISHA                               | 02/03/2022 | 4239579 | 22159784.2 | French |
|         | ETH Zurich - The Swiss Federal Institute of Technology Zurich |            |         |            |        |
| 4239816 | THALES                                                        | 01/03/2023 | 4239816 | 23159325.2 |        |
| 4239843 | LG INNOTEK CO., LTD.                                          | 23/08/2017 | 4239843 | 23186851.4 |        |
| 4239844 | LG INNOTEK CO., LTD.                                          | 23/08/2017 | 4239844 | 23186852.2 |        |
| 4239847 | LG INNOTEK CO., LTD.                                          | 23/08/2017 | 4239847 | 23186855.5 |        |
| 4239848 | LG INNOTEK CO., LTD.                                          | 23/08/2017 | 4239848 | 23186856.3 |        |
| 4241406 | QUALCOMM INCORPORATED                                         | 26/07/2021 | 4241406 | 21756167.9 |        |
| 4241867 | Deyma la Mancha, S.L.                                         | 05/11/2021 | 4241867 | 21888734.7 |        |
| 4241997 | Ricoh Company, Ltd.                                           | 02/03/2023 | 4241997 | 23159596.8 | French |
| 4242027 | Suzuki Motor Corporation                                      | 16/12/2022 | 4242027 | 22214332.3 |        |
| 4242069 | BlackBerry Limited                                            | 27/06/2016 | 4242069 | 23182921.9 |        |
| 4242386 | Yanmar Holdings Co., Ltd.                                     | 14/02/2023 | 4242386 | 23156534.2 |        |
| 4242917 | Huawei Technologies Co. Ltd.                                  | 19/11/2021 | 4242917 | 21899890.4 |        |
| 4243219 | Legrand France                                                | 24/02/2023 | 4243219 | 23158622.3 |        |
|         | Legrand SNC                                                   |            |         |            |        |
| 4243347 | Nozomi Networks Sagl                                          | 28/02/2023 | 4243347 | 23159255.1 |        |
| 4243464 | LG Electronics Inc.                                           | 15/06/2021 | 4243464 | 21889337.8 |        |
| 4243528 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.          | 11/12/2020 | 4243528 | 20964773.4 | French |
| 4243581 | Samsung Electronics Co., Ltd.                                 | 10/01/2022 | 4243581 | 22746104.3 |        |
| 4243725 | Acumed LLC                                                    | 08/11/2021 | 4243725 | 21892631.9 |        |
| 4244120 | Jijibaba Limited                                              | 16/11/2021 | 4244120 | 21815963.0 |        |

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| 4244377 | Illumina Cambridge Limited<br>Illumina, Inc.                                 | 12/11/2021 | 4244377 | 21815390.6 |        |
| 4244505 | Giacomini S.p.A.                                                             | 05/11/2021 | 4244505 | 21810740.7 |        |
| 4244654 | Valeo Schalter und Sensoren GmbH                                             | 09/11/2021 | 4244654 | 21814692.6 | German |
| 4245053 | Oracle International Corporation                                             | 22/07/2021 | 4245053 | 21755248.8 |        |
| 4245096 | Telefonaktiebolaget LM Ericsson (publ)                                       | 07/07/2021 | 4245096 | 21891377.0 |        |
| 4245383 | Head Technology GmbH                                                         | 15/03/2022 | 4245383 | 22162115.4 |        |
| 4245615 | LG Electronics Inc.                                                          | 08/11/2021 | 4245615 | 21892261.5 |        |
| 4245632 | Murata Machinery, Ltd.                                                       | 27/09/2021 | 4245632 | 21891513.0 |        |
| 4245782 | BIOSPHERE MEDICAL, INC.                                                      | 11/01/2016 | 4245782 | 23170497.4 |        |
| 4246063 | Carrier Corporation                                                          | 15/03/2022 | 4246063 | 22162320.0 |        |
| 4246350 | Secuve Co., Ltd.                                                             | 10/12/2020 | 4246350 | 20845768.9 |        |
| 4246470 | Perfect Mobile Corp.                                                         | 14/03/2023 | 4246470 | 23161866.1 |        |
| 4246603 | LG Energy Solution, Ltd.                                                     | 01/09/2022 | 4246603 | 22873124.6 |        |
| 4248103 | Litens Automotive Partnership                                                | 19/11/2021 | 4248103 | 21893191.3 |        |
| 4248116 | Tescom Corporation                                                           | 17/11/2021 | 4248116 | 21830551.4 |        |
| 4248400 | International Business Machines Corporation                                  | 18/11/2021 | 4248400 | 21816381.4 |        |
| 4248784 | JSP Limited                                                                  | 16/08/2019 | 4248784 | 23172445.1 |        |
| 4249408 | Tanzar Maschinenbau Srl                                                      | 22/02/2023 | 4249408 | 23000029.1 | German |
| 4249789 | National Institute for Materials Science<br>Krosakiharima Corporation        | 21/09/2021 | 4249789 | 21894312.4 |        |
| 4250017 | Ricoh Company, Ltd.                                                          | 09/03/2023 | 4250017 | 23161000.7 |        |
| 4250175 | Seiko Epson Corporation                                                      | 23/03/2023 | 4250175 | 23163802.4 |        |
| 4250283 | Casio Computer Co., Ltd.                                                     | 21/03/2023 | 4250283 | 23163106.0 |        |
| 4250398 | LG Energy Solution, Ltd.                                                     | 07/12/2021 | 4250398 | 21903820.5 |        |
| 4250593 | IPlook Networks Co., Ltd.                                                    | 28/03/2022 | 4250593 | 22783905.7 |        |
| 4250615 | Sharp Kabushiki Kaisha                                                       | 24/03/2023 | 4250615 | 23164025.1 |        |
| 4250771 | Sivantos Pte. Ltd.                                                           | 16/02/2023 | 4250771 | 23157058.1 | German |
| 4250858 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                      | 17/11/2020 | 4250858 | 20961836.2 |        |
| 4250871 | RSI Sarl                                                                     | 21/03/2022 | 4250871 | 22163371.2 | German |
| 4251290 | Elektrobau Beyer GmbH                                                        |            |         |            |        |
| 4251290 | Instantpadel in Sweden AB                                                    | 08/07/2021 | 4251290 | 21898800.4 |        |
| 4251492 | Martin, Knut                                                                 | 11/05/2021 | 4251492 | 21726856.4 | German |
| 4251624 | Amgen Inc.                                                                   | 22/11/2021 | 4251624 | 21827727.5 |        |
| 4251949 | Hilti Aktiengesellschaft                                                     | 10/11/2021 | 4251949 | 21810336.4 |        |
| 4252010 | Technoprobe S.p.A                                                            | 18/11/2021 | 4252010 | 21816376.4 |        |
| 4252158 | Qubit Moving and Storage, LLC                                                | 23/11/2021 | 4252158 | 21911853.6 |        |
| 4252808 | imtmedical ag                                                                | 05/12/2017 | 4252808 | 23188382.8 |        |
| 4253244 | Airbus Operations GmbH                                                       | 28/03/2022 | 4253244 | 22164648.2 | German |
| 4253608 | National Taiwan University of Science and<br>Technology                      | 27/04/2022 | 4253608 | 22170331.7 |        |
| 4253667 | Forschungszentrum Jülich GmbH<br>KOBELCO CONSTRUCTION<br>MACHINERY CO., LTD. | 16/12/2021 | 4253667 | 21917650.0 |        |
| 4253685 | VKR Holding A/S                                                              | 31/03/2023 | 4253685 | 23166221.4 |        |
| 4253846 | LG Electronics Inc.                                                          | 06/04/2010 | 4253846 | 23181938.4 |        |
| 4254103 | VESTAS WIND SYSTEMS A/S                                                      | 29/03/2023 | 4254103 | 23164900.5 |        |
| 4254263 | Ark Limited                                                                  | 29/11/2021 | 4254263 | 21898152.0 |        |
| 4254405 | Sony Group Corporation                                                       | 16/09/2015 | 4254405 | 23174513.4 |        |
| 4254718 | LG Energy Solution, Ltd.                                                     | 06/09/2022 | 4254718 | 22867668.0 |        |
| 4255628 | cytena Bioprocess Solutions co., Ltd.                                        | 29/11/2021 | 4255628 | 21819863.8 |        |
| 4255940 | Borealis GmbH                                                                | 18/11/2021 | 4255940 | 21815485.4 |        |
| 4256555 | Dolby Laboratories Licensing Corporation<br>Dolby International AB           | 02/12/2021 | 4256555 | 21836685.4 |        |
| 4256999 | NIKE Innovate C.V.                                                           | 20/06/2011 | 4256999 | 23189238.1 |        |
| 4257070 | Siemens Healthineers AG                                                      | 05/04/2022 | 4257070 | 22166759.5 |        |
| 4257412 | ALSTOM Holdings                                                              | 07/04/2022 | 4257412 | 22305484.2 | German |
| 4257996 | LG Energy Solution, Ltd.                                                     | 22/09/2022 | 4257996 | 22883793.6 |        |

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| 4258155 | Nexperia Technology (Shanghai) Ltd.<br>Chongqing University<br>Nexperia B.V.                    | 06/04/2023 | 4258155 | 23166904.5 |        |
| 4258204 | Milestone Systems A/S                                                                           | 22/11/2022 | 4258204 | 22208899.9 |        |
| 4258455 | LG Energy Solution, Ltd.                                                                        | 08/03/2022 | 4258455 | 22767487.6 |        |
| 4259047 | Invibio Knees Limited                                                                           | 11/11/2021 | 4259047 | 21815593.5 |        |
| 4260121 | ASML Netherlands B.V.                                                                           | 15/11/2021 | 4260121 | 21811329.8 |        |
| 4260171 | Microsoft Technology Licensing, LLC                                                             | 09/11/2021 | 4260171 | 21823696.6 |        |
| 4260221 | International Business Machines<br>Corporation                                                  | 30/11/2021 | 4260221 | 21823535.6 |        |
| 4260381 | Lumileds LLC                                                                                    | 21/09/2021 | 4260381 | 21907379.8 |        |
| 4260682 | Lithuanian Research Centre for Agriculture<br>and Forestry                                      | 14/04/2022 | 4260682 | 22168507.6 |        |
| 4261269 | Merck Patent GmbH                                                                               | 11/04/2023 | 4261269 | 23167264.3 |        |
| 4261653 | Samsung Electronics Co., Ltd.                                                                   | 27/12/2021 | 4261653 | 21923455.6 |        |
| 4261770 | Tencent Cloud Computing (Beijing) Co.,<br>Ltd                                                   | 26/07/2021 | 4261770 | 21943728.2 |        |
| 4262175 | Samsung Electronics Co., Ltd.                                                                   | 20/12/2021 | 4262175 | 21919910.6 |        |
| 4262226 | Honor Device Co., Ltd.                                                                          | 29/12/2022 | 4262226 | 22917647.4 |        |
| 4262552 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                               | 08/12/2021 | 4262552 | 21823324.5 | French |
| 4262979 | Jazz Pharmaceuticals Research UK Limited                                                        | 15/12/2021 | 4262979 | 21830743.7 |        |
| 4264251 | Molex, LLC                                                                                      | 21/12/2021 | 4264251 | 21909677.3 |        |
| 4264373 | ASML Netherlands B.V.                                                                           | 24/11/2021 | 4264373 | 21819114.6 |        |
| 4265107 | Revamp Corporation<br>The University of Tokyo                                                   | 20/12/2021 | 4265107 | 21910728.1 |        |
| 4265340 | SHANGHAI FORESIGHT SMART<br>EQUIPMENT CO., LTD.                                                 | 20/10/2022 | 4265340 | 22798231.1 |        |
| 4265381 | Syntegon Technology GmbH                                                                        | 29/03/2023 | 4265381 | 23165015.1 | German |
| 4265450 | Thermo King LLC                                                                                 | 20/04/2023 | 4265450 | 23169038.9 |        |
| 4265545 | Intelligrated Headquarters, LLC                                                                 | 23/03/2023 | 4265545 | 23163864.4 |        |
| 4265692 | Torrecid, S.A.                                                                                  | 22/12/2021 | 4265692 | 21920897.2 |        |
| 4266103 | Legrand DPC, LLC                                                                                | 28/11/2019 | 4266103 | 23194203.8 |        |
| 4266439 | LG Energy Solution, Ltd.                                                                        | 01/09/2022 | 4266439 | 22865075.0 |        |
| 4266467 | LG Energy Solution, Ltd.                                                                        | 23/08/2022 | 4266467 | 22861692.6 |        |
| 4267067 | Paul Hartmann AG                                                                                | 21/12/2021 | 4267067 | 21839226.4 | German |
| 4267369 | ALPLA Werke Alwin Lehner GmbH & Co.<br>KG                                                       | 23/12/2021 | 4267369 | 21844342.2 | German |
| 4268109 | Alten                                                                                           | 23/12/2021 | 4268109 | 21845104.5 | French |
| 4268178 | Advanced Micro Devices, Inc.<br>Samsung Electronics Co., Ltd.                                   | 22/12/2021 | 4268178 | 21916244.3 |        |
| 4268717 | Ergo Figure Limited                                                                             | 04/07/2019 | 4268717 | 23195566.7 |        |
| 4268966 | Alfa Laval Corporate AB                                                                         | 29/04/2022 | 4268966 | 22170733.4 |        |
| 4269114 | FUJIFILM Corporation                                                                            | 13/12/2021 | 4269114 | 21910425.4 |        |
| 4269163 | China Faw Co., Ltd.                                                                             | 23/12/2021 | 4269163 | 21909514.8 |        |
| 4269718 | Kera Group Oy                                                                                   | 24/04/2023 | 4269718 | 23169369.8 |        |
| 4269748 | Shonan Gosei-Jushi Seisakusho K.K.                                                              | 24/02/2022 | 4269748 | 22787866.7 |        |
| 4269804 | Pfeiffer Vacuum Technology AG                                                                   | 14/08/2023 | 4269804 | 23191349.2 | German |
| 4269919 | L'AIR LIQUIDE, SOCIETE ANONYME<br>POUR L'ETUDE ET L'EXPLOITATION<br>DES PROCEDES GEORGES CLAUDE | 14/04/2023 | 4269919 | 23167885.5 | French |
| 4270025 | LG Energy Solution, Ltd.                                                                        | 19/09/2022 | 4270025 | 22907630.2 |        |
| 4270052 | Suteng Innovation Technology Co., Ltd                                                           | 26/04/2023 | 4270052 | 23170196.2 |        |
| 4270179 | Dynatrace LLC                                                                                   | 24/04/2023 | 4270179 | 23169486.0 |        |
| 4272409 | Northrop Grumman Systems Corporation                                                            | 16/11/2021 | 4272409 | 21835454.6 |        |
| 4272537 | CLAAS Selbstfahrende Erntemaschinen<br>GmbH                                                     | 14/03/2023 | 4272537 | 23161793.7 | German |
| 4272768 | LG Electronics, Inc.                                                                            | 28/09/2022 | 4272768 | 22198293.7 |        |
| 4272953 | TOPPAN INC.                                                                                     | 21/02/2022 | 4272953 | 22759585.7 |        |
| 4272969 | HOMAG GmbH                                                                                      | 11/04/2023 | 4272969 | 23167310.4 | German |
| 4273031 | Tencent Technology (Shenzhen) Company<br>Limited                                                | 17/05/2022 | 4273031 | 22815023.1 |        |

|         |                                                      |            |         |            |        |
|---------|------------------------------------------------------|------------|---------|------------|--------|
| 4273301 | TOTO LTD.                                            | 22/03/2023 | 4273301 | 23163579.8 |        |
| 4273335 | 2Go Products, LLC                                    | 29/09/2022 | 4273335 | 22198777.9 |        |
| 4273575 | RIEGL Laser Measurement Systems GmbH                 | 03/05/2022 | 4273575 | 22171422.3 | German |
| 4273859 | Microsoft Technology Licensing, LLC                  | 10/12/2019 | 4273859 | 23193038.9 |        |
| 4273877 | DC Vision Systems GmbH                               | 04/05/2022 | 4273877 | 22171600.4 | German |
| 4274360 | Lenovo (Singapore) Pte. Ltd.                         | 01/04/2019 | 4274360 | 23198824.7 |        |
| 4274367 | Samsung Electronics Co., Ltd.                        | 30/10/2019 | 4274367 | 23187598.0 |        |
| 4274985 | Signify Holding B.V.                                 | 22/12/2021 | 4274985 | 21840057.0 |        |
| 4275542 | KCC Zipper Co., Ltd.                                 | 17/06/2022 | 4275542 | 22179588.3 |        |
| 4275610 | Mako Surgical Corp.                                  | 13/07/2016 | 4275610 | 23195257.3 |        |
| 4275829 | Qualicaps Co., Ltd.                                  | 21/12/2021 | 4275829 | 21919684.7 |        |
| 4278383 | Hitachi Energy Ltd                                   | 29/03/2022 | 4278383 | 22719531.0 |        |
| 4278594 | Telefonaktiebolaget LM Ericsson (publ)               | 14/01/2022 | 4278594 | 22700935.4 |        |
| 4278620 | ZTE Corporation                                      | 15/01/2021 | 4278620 | 21918525.3 |        |
| 4278750 | Telefonaktiebolaget LM Ericsson (publ)               | 14/01/2022 | 4278750 | 22704280.1 |        |
| 4278997 | Zimmer, Inc.                                         | 18/05/2023 | 4278997 | 23174195.0 |        |
| 4279169 | Anzai, Satoshi                                       | 11/01/2022 | 4279169 | 22739379.0 |        |
| 4279382 | Volocopter Technologies GmbH                         | 20/05/2022 | 4279382 | 22174684.5 |        |
| 4279927 | Contemporary Ampere Technology (Hong Kong) Limited   | 20/03/2023 | 4279927 | 23733189.7 |        |
| 4280259 | NORDSON CORPORATION                                  | 08/06/2018 | 4280259 | 23200118.0 |        |
| 4280584 | Canon Kabushiki Kaisha                               | 23/03/2023 | 4280584 | 23163867.7 |        |
| 4281590 | HYBRIT Development AB                                | 21/01/2022 | 4281590 | 22702058.3 |        |
| 4281805 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.  | 23/06/2021 | 4281805 | 21946395.7 |        |
| 4282216 | ZTE Corporation                                      | 19/01/2021 | 4282216 | 21920170.4 |        |
| 4282450 | Altek Biotechnology Corporation                      | 03/05/2023 | 4282450 | 23171280.3 |        |
| 4282618 | Kaneka Corporation                                   | 21/12/2021 | 4282618 | 21921329.5 |        |
| 4282752 | Suntory Holdings Limited                             |            |         |            |        |
| 4282752 | Airbus Operations Limited                            | 24/05/2023 | 4282752 | 23175076.1 |        |
| 4282802 | OTIS Elevator Company                                | 24/11/2022 | 4282802 | 22209381.7 |        |
| 4282982 | Life Technologies Corporation                        | 29/06/2018 | 4282982 | 23192384.8 |        |
| 4283168 | Andreas Stihl AG & Co. KG                            | 24/05/2022 | 4283168 | 22175178.7 | German |
| 4283292 | LG Energy Solution, Ltd.                             | 22/09/2022 | 4283292 | 22890179.9 |        |
| 4283695 | LG Energy Solution, Ltd.                             | 07/11/2022 | 4283695 | 22890478.5 |        |
| 4283784 | Honor Device Co., Ltd.                               | 25/08/2022 | 4283784 | 22885375.0 |        |
| 4283794 | Tyco Electronics (Suzhou) Ltd.                       | 22/05/2023 | 4283794 | 23174417.8 |        |
|         | Tyco Electronics Technology (SIP) Ltd.               |            |         |            |        |
|         | Tyco Electronics (Shanghai) Co., Ltd.                |            |         |            |        |
| 4283910 | ZTE Corporation                                      | 08/08/2016 | 4283910 | 23184230.3 |        |
| 4283953 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 22/01/2021 | 4283953 | 21920318.9 |        |
| 4284002 | Huawei Technologies Co. Ltd.                         | 16/12/2021 | 4284002 | 21924421.7 |        |
| 4284009 | Honor Device Co., Ltd.                               | 29/08/2022 | 4284009 | 22866473.6 |        |
| 4284256 | Clariance                                            | 01/02/2022 | 4284256 | 22705859.1 | French |
| 4285025 | Q T Flow Ltd                                         | 27/01/2021 | 4285025 | 21921669.4 |        |
| 4285279 | Giesecke+Devrient ePayments GmbH                     | 25/01/2022 | 4285279 | 22702391.8 | German |
| 4285454 | MULTICHARGE OÜ                                       | 26/01/2021 | 4285454 | 21703989.0 |        |
| 4285600 | Sonos, Inc.                                          | 28/01/2022 | 4285600 | 22705234.7 |        |
| 4286670 | Maruyama MFG. Co., Inc.                              | 25/05/2023 | 4286670 | 23175339.3 |        |
| 4286681 | Sulzer Management AG                                 | 24/05/2023 | 4286681 | 23175098.5 |        |
| 4286967 | Atlas Copco Industrial Technique AB                  | 08/05/2023 | 4286967 | 23171993.1 |        |
| 4287379 | LG Energy Solution, Ltd.                             | 23/12/2022 | 4287379 | 22912051.4 |        |
| 4287588 | Huawei Technologies Co. Ltd.                         | 18/02/2022 | 4287588 | 22758815.9 |        |
| 4287735 | Sony Group Corporation                               | 24/12/2021 | 4287735 | 21923268.3 |        |
| 4287960 | Cilag GmbH International                             | 05/04/2023 | 4287960 | 23721465.5 |        |
| 4288011 | Paul Hartmann AG                                     | 01/02/2022 | 4288011 | 22709597.3 | German |
| 4288330 | PIAGGIO & C. S.p.A.                                  | 26/01/2022 | 4288330 | 22705885.6 |        |
| 4288422 | Floratek Pharma SA                                   | 08/02/2022 | 4288422 | 22706022.5 |        |
| 4289281 | Zhejiang Keming Biopharmaceutical Co., Ltd           | 05/06/2023 | 4289281 | 23177324.3 |        |
| 4289363 | Siemens Healthineers AG                              | 07/06/2022 | 4289363 | 22177562.0 | German |

|         |                                                                         |            |         |            |        |
|---------|-------------------------------------------------------------------------|------------|---------|------------|--------|
| 4289707 | Toyota Jidosha Kabushiki Kaisha                                         | 23/05/2023 | 4289707 | 23174918.5 |        |
|         | Suzuki Motor Corporation                                                |            |         |            |        |
| 4290185 | LG Electronics Inc.                                                     | 12/07/2022 | 4290185 | 22842431.3 |        |
| 4290226 | Netzsch-Gerätebau GmbH                                                  | 07/06/2023 | 4290226 | 23075001.0 |        |
| 4290311 | Ricoh Company, Ltd.                                                     | 06/06/2023 | 4290311 | 23177527.1 |        |
| 4290627 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                      | 25/04/2023 | 4290627 | 23169670.9 |        |
| 4290755 | MITSUBISHI ELECTRIC<br>CORPORATION                                      | 02/02/2021 | 4290755 | 21924565.1 |        |
| 4290845 | Honor Device Co., Ltd.                                                  | 16/05/2022 | 4290845 | 22855003.4 |        |
| 4291109 | Cilag GmbH International                                                | 05/04/2023 | 4291109 | 23720992.9 |        |
| 4291131 | Institut Straumann AG                                                   | 09/02/2022 | 4291131 | 22703679.5 |        |
| 4291409 | Stolle Machinery Company, LLC                                           | 10/02/2022 | 4291409 | 22753303.1 |        |
| 4291456 | ZF CV Systems Global GmbH                                               | 31/01/2022 | 4291456 | 22702728.1 | German |
| 4291782 | Mixtron S.r.l.                                                          | 18/01/2022 | 4291782 | 22700343.1 |        |
| 4292374 | LG Electronics Inc.                                                     | 06/04/2022 | 4292374 | 22784945.2 |        |
| 4292901 | The Raymond Corporation                                                 | 16/06/2023 | 4292901 | 23179653.3 |        |
| 4292927 | Goodrich Corporation                                                    | 12/06/2023 | 4292927 | 23178789.6 |        |
| 4292990 | SUMITOMO ELECTRIC INDUSTRIES,<br>LTD.                                   | 08/02/2022 | 4292990 | 22752733.0 |        |
| 4293025 | Astellas Pharma Inc.                                                    | 14/02/2022 | 4293025 | 22752855.1 |        |
| 4293156 | Farre Escale, Gerard                                                    | 12/06/2023 | 4293156 | 23382577.7 |        |
| 4293251 | Advanced Suspension Technology LLC                                      | 25/05/2023 | 4293251 | 23175268.4 |        |
| 4293832 | Yamaichi Electronics Co., Ltd.                                          | 13/06/2023 | 4293832 | 23178817.5 |        |
| 4293852 | LG Energy Solution, Ltd.                                                | 31/08/2022 | 4293852 | 22878729.7 |        |
| 4294102 | InterDigital Patent Holdings, Inc.                                      | 01/04/2019 | 4294102 | 23207060.7 |        |
| 4294747 | Laitram, L.L.C.                                                         | 07/02/2022 | 4294747 | 22707274.1 |        |
| 4294867 | The Procter & Gamble Company                                            | 22/02/2022 | 4294867 | 22709129.5 |        |
| 4295058 | Sew-Eurodrive GmbH & Co. KG                                             | 31/01/2022 | 4295058 | 22704864.2 | German |
| 4295083 | BDR Thermea Group B.V.                                                  | 16/02/2022 | 4295083 | 22709287.1 |        |
| 4295190 | Lufthansa Technik AG                                                    | 17/02/2022 | 4295190 | 22710522.8 | German |
| 4295736 | Beijing Xiaomi Mobile Software Co., Ltd.                                | 30/09/2022 | 4295736 | 22198952.8 |        |
| 4295932 | Logilicity Co., Ltd.                                                    | 17/02/2021 | 4295932 | 21926484.3 |        |
| 4296611 | Di Capua, Giulia                                                        | 31/05/2023 | 4296611 | 23176326.9 |        |
|         | Ferrigno, Luigi                                                         |            |         |            |        |
|         | Laracca, Marco                                                          |            |         |            |        |
|         | Sardellitti, Alessandro                                                 |            |         |            |        |
|         | Tamburrino, Antonello                                                   |            |         |            |        |
|         | Ventre, Salvatore                                                       |            |         |            |        |
| 4296662 | Doosan Enerbility Co., Ltd.                                             | 19/06/2023 | 4296662 | 23180087.1 |        |
| 4297000 | Unilumin Group Co., Ltd.                                                | 08/02/2023 | 4297000 | 23155573.1 |        |
| 4297002 | MIANYANG HKC OPTOELECTRONICS<br>TECHNOLOGY CO., LTD                     | 29/11/2022 | 4297002 | 22913961.3 |        |
|         | HKC Corporation Limited                                                 |            |         |            |        |
| 4297292 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                 | 25/02/2021 | 4297292 | 21927207.7 |        |
| 4297643 | B. Braun Melsungen AG                                                   | 21/02/2022 | 4297643 | 22708882.0 | German |
| 4299269 | Fraunhofer-Gesellschaft zur Förderung der<br>angewandten Forschung e.V. | 28/06/2022 | 4299269 | 22181631.7 |        |
| 4299447 | Rohr, Inc.                                                              | 30/06/2023 | 4299447 | 23182706.4 |        |
| 4299567 | MITSUBISHI GAS CHEMICAL<br>COMPANY, INC.                                | 24/02/2022 | 4299567 | 22759705.1 |        |
|         | NIPPON STEEL CORPORATION                                                |            |         |            |        |
|         | Nippon Steel Engineering Co., Ltd.                                      |            |         |            |        |
| 4299830 | DIC CORPORATION                                                         | 09/09/2021 | 4299830 | 21927993.2 |        |
| 4299892 | General Electric Company                                                | 04/09/2018 | 4299892 | 23211530.3 |        |
| 4300119 | Siemens Healthcare Limited                                              | 29/06/2022 | 4300119 | 22275082.0 |        |
| 4300123 | Siemens Healthcare Limited                                              | 29/06/2022 | 4300123 | 22275083.8 |        |
| 4300146 | Huawei Technologies Co. Ltd.                                            | 11/03/2022 | 4300146 | 22774060.2 |        |
| 4300991 | Suzhou Sonavox Electronics Co., Ltd.                                    | 07/08/2019 | 4300991 | 23202641.9 |        |
| 4301072 | Nokia Technologies Oy                                                   | 15/11/2017 | 4301072 | 23211116.1 |        |
| 4301100 | ALPS Electric (Ireland) Ltd.                                            | 30/06/2022 | 4301100 | 22182339.6 |        |

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| 4301918 | NIKE Innovate C.V.                                   | 04/03/2022 | 4301918 | 22713125.7 |        |
| 4301919 | Andritz Küsters GmbH                                 | 21/02/2022 | 4301919 | 22703323.0 | German |
| 4302121 | QUALCOMM INCORPORATED                                | 28/01/2022 | 4302121 | 22705000.2 |        |
| 4302957 | Riera I Boix, Daniel                                 | 03/03/2022 | 4302957 | 22762665.2 |        |
| 4303361 | FiberLean Technologies Limited                       | 31/03/2017 | 4303361 | 23211918.0 |        |
| 4303578 | ARKRAY, Inc.                                         | 29/06/2023 | 4303578 | 23182267.7 |        |
| 4304046 | Positec Power Tools (Suzhou) Co., Ltd.               | 03/03/2022 | 4304046 | 22762601.7 |        |
| 4304326 | International N&H Denmark ApS                        | 03/03/2022 | 4304326 | 22709326.7 |        |
| 4304955 | Schneider GmbH & Co. KG                              | 08/03/2022 | 4304955 | 22711054.1 | German |
| 4305209 | Istituti Fisioterapici Ospitalieri                   | 08/03/2022 | 4305209 | 22713083.8 |        |
| 4305306 | Siemens Energy, Inc.                                 | 04/03/2022 | 4305306 | 22712697.6 |        |
| 4305398 | Leica Biosystems Nussloch GmbH                       | 10/03/2022 | 4305398 | 22712406.2 | German |
| 4305944 | KANZAKI KOKYUKOKI MFG. CO., LTD.                     | 30/05/2023 | 4305944 | 23176145.3 |        |
| 4306003 | Zahoransky AG                                        | 31/07/2018 | 4306003 | 23206087.1 | German |
| 4306025 | Jiangsu Midea Cleaning Appliances Co., Ltd.          | 30/09/2022 | 4306025 | 22875159.0 |        |
|         | Midea Group Co., Ltd.                                |            |         |            |        |
| 4306235 | IPG Photonics (Canada) Inc.                          | 26/09/2011 | 4306235 | 23214093.9 |        |
| 4306393 | ABUS August Bremicker Söhne KG                       | 06/07/2023 | 4306393 | 23183985.3 | German |
| 4306423 | PRATT & WHITNEY CANADA CORP.                         | 13/07/2023 | 4306423 | 23185418.3 |        |
| 4306697 | SHIMA SEIKI MFG., LTD.                               | 03/03/2022 | 4306697 | 22767006.4 |        |
| 4306778 | TOYOTA JIDOSHA KABUSHIKI KAISHA                      | 23/06/2023 | 4306778 | 23181259.5 |        |
|         | CATALER CORPORATION                                  |            |         |            |        |
| 4306912 | Siemens Aktiengesellschaft                           | 12/07/2022 | 4306912 | 22184530.8 | German |
| 4306977 | LG Energy Solution, Ltd.                             | 30/09/2022 | 4306977 | 22904416.9 |        |
| 4307127 | Samsung Electronics Co., Ltd.                        | 13/07/2023 | 4307127 | 23185267.4 |        |
| 4307166 | OmniVision Sensor Solution (Shanghai) Co., Ltd       | 13/05/2021 | 4307166 | 21929730.6 |        |
| 4307341 | Changxin Memory Technologies, Inc.                   | 20/06/2022 | 4307341 | 22782806.8 |        |
| 4307522 | MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.    | 09/02/2022 | 4307522 | 22787829.5 |        |
| 4308729 | Cepheid                                              | 14/01/2022 | 4308729 | 22705490.5 |        |
| 4308856 | Universität Kassel                                   | 16/03/2022 | 4308856 | 22716167.6 | German |
| 4308901 | Prophesee                                            | 10/03/2022 | 4308901 | 22711556.5 |        |
| 4309142 | Digital Surgery Limited                              | 18/03/2022 | 4309142 | 22719618.5 |        |
| 4309574 | Cianna Medical, Inc.                                 | 27/01/2014 | 4309574 | 23200866.4 |        |
| 4309807 | Karlsruher Institut für Technologie                  | 20/07/2023 | 4309807 | 23186796.1 | German |
| 4309819 | Hexagon Technology Center GmbH                       | 18/07/2022 | 4309819 | 22185463.1 |        |
| 4310336 | NINGBO JUNHE INTELLIGENT TECHNOLOGY CO., LTD.        | 23/09/2022 | 4310336 | 22786258.8 |        |
| 4310452 | Panasonic Intellectual Property Management Co., Ltd. | 04/02/2022 | 4310452 | 22770933.4 |        |
| 4310469 | SubCom, LLC                                          | 19/07/2023 | 4310469 | 23186431.5 |        |
| 4310475 | INSTITUT POLYTECHNIQUE DE BORDEAUX                   | 18/07/2023 | 4310475 | 23186250.9 | French |
|         | CENTRE NATIONAL DE LA RESEARCH SCIENTIFIQUE          |            |         |            |        |
|         | UNIVERSITE DE BORDEAUX                               |            |         |            |        |
|         | ECOLE NATIONALE SUPERIEURE D'ARTS ET METIERS         |            |         |            |        |
| 4310543 | QUALCOMM Incorporated                                | 16/07/2019 | 4310543 | 23214630.8 |        |
| 4311366 | Huawei Technologies Co. Ltd.                         | 02/04/2022 | 4311366 | 22794523.5 |        |
| 4311517 | Dentsply Sirona Inc.                                 | 14/09/2022 | 4311517 | 22195526.3 |        |
|         | Sirona Dental Systems GmbH                           |            |         |            |        |
| 4311719 | ZHEJIANG ZEEKR INTELLIGENT TECHNOLOGY CO., LTD.      | 18/07/2023 | 4311719 | 23186078.4 |        |
|         | VIRIDI E-MOBILITY TECHNOLOGY (NINGBO) CO., LTD.      |            |         |            |        |
|         | Zhejiang Geely Holding Group Co., Ltd.               |            |         |            |        |
| 4311782 | Airbus Operations SAS                                | 18/07/2023 | 4311782 | 23186218.6 | French |

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| 4311920 | J.C. Bamford Excavators Limited                                      | 25/07/2023 | 4311920 | 23187507.1 |        |
| 4311951 | EBARA CORPORATION                                                    | 26/07/2023 | 4311951 | 23187952.9 |        |
| 4312135 | RSA Security LLC                                                     | 08/05/2023 | 4312135 | 23172005.3 |        |
| 4312153 | KONICA MINOLTA, INC.                                                 | 19/07/2023 | 4312153 | 23186258.2 |        |
| 4312200 | Cardtronics USA, Inc.                                                | 22/12/2022 | 4312200 | 22216221.6 |        |
| 4312632 | KT&G Corporation                                                     | 09/11/2022 | 4312632 | 22893166.3 |        |
| 4312970 | Union Carbide Corporation                                            | 09/03/2022 | 4312970 | 22714045.6 |        |
|         | Rohm and Haas Company                                                |            |         |            |        |
| 4313424 | SEB S.A.                                                             | 25/03/2022 | 4313424 | 22718645.9 |        |
| 4314473 | Chevron U.S.A. Inc.                                                  | 29/03/2021 | 4314473 | 21935373.7 |        |
| 4315161 | Giesecke+Devrient ePayments GmbH                                     | 23/03/2022 | 4315161 | 22718861.2 | German |
| 4315761 | Landis+Gyr Technology, Inc.                                          | 29/03/2022 | 4315761 | 22723233.7 |        |
| 4316102 | Ofinno, LLC                                                          | 22/03/2022 | 4316102 | 22716630.3 |        |
| 4316246 | MAYEKAWA MFG. CO., LTD.                                              | 06/10/2022 | 4316246 | 22880910.9 |        |
| 4316321 | Henny Penny Corporation                                              | 28/04/2022 | 4316321 | 23210458.8 |        |
| 4316382 | Lightlab Imaging, Inc.                                               | 04/02/2013 | 4316382 | 23218841.7 |        |
| 4316561 | Boston Scientific Scimed, Inc.                                       | 18/08/2014 | 4316561 | 23219208.8 |        |
| 4317074 | DIC Corporation                                                      | 22/03/2022 | 4317074 | 22775543.6 |        |
| 4317179 | BrightGene Bio-Medical Technology Co., Ltd.                          | 23/03/2022 | 4317179 | 22774284.8 |        |
| 4317707 | J.C. Bamford Excavators Limited                                      | 02/03/2022 | 4317707 | 23217704.8 |        |
| 4317903 | KNDS France                                                          | 21/07/2023 | 4317903 | 23187022.1 | French |
| 4318813 | Japan Aviation Electronics Industry, Limited                         | 07/06/2023 | 4318813 | 23178033.9 |        |
| 4319151 | Samsung Electronics Co., Ltd.                                        | 12/05/2022 | 4319151 | 22804900.3 |        |
| 4319493 | China Institute of Atomic Energy                                     | 15/09/2022 | 4319493 | 22936716.4 |        |
| 4319693 | W. L. Gore & Associates, Inc.                                        | 06/04/2021 | 4319693 | 21721749.6 |        |
| 4320327 | Brose Fahrzeugteile SE & Co. Kommanditgesellschaft, Bamberg          | 05/04/2022 | 4320327 | 22720678.6 | German |
| 4321220 | CSL Behring LLC                                                      | 30/11/2018 | 4321220 | 23209713.9 |        |
| 4321222 | Hamilton Sundstrand Corporation                                      | 26/07/2023 | 4321222 | 23187803.4 |        |
| 4321440 | Hamilton Sundstrand Corporation                                      | 03/08/2023 | 4321440 | 23189523.6 |        |
| 4321927 | Honor Device Co., Ltd.                                               | 01/09/2022 | 4321927 | 22905953.0 |        |
| 4321969 | STMicroelectronics S.r.l.                                            | 18/07/2023 | 4321969 | 23186008.1 |        |
| 4322153 | Harman International Industries, Incorporated                        | 12/08/2022 | 4322153 | 22190193.7 |        |
| 4322345 | Marvel Fusion GmbH                                                   | 12/08/2022 | 4322345 | 22190323.0 |        |
| 4322844 | Bard Peripheral Vascular, Inc.                                       | 01/04/2022 | 4322844 | 22723249.3 |        |
| 4322873 | Medtronic Vascular Inc.                                              | 12/04/2022 | 4322873 | 22717920.7 |        |
| 4323040 | Werrta GmbH Düsen- und Zerstäubungstechnik                           | 29/03/2022 | 4323040 | 22719821.5 | German |
| 4323545 | Biotype GmbH                                                         | 14/04/2022 | 4323545 | 22716983.6 |        |
| 4323665 | Sew-Eurodrive GmbH & Co. KG                                          | 30/03/2022 | 4323665 | 22715112.3 | German |
| 4324384 | i-Sens, Inc.                                                         | 07/06/2019 | 4324384 | 23216036.6 |        |
| 4324388 | BIOSENSE WEBSTER (ISRAEL) LTD.                                       | 17/08/2023 | 4324388 | 23191840.0 |        |
| 4324403 | Gdanski Uniwersytet Medyczny                                         | 23/02/2023 | 4324403 | 23460005.4 |        |
| 4324749 | Airbus (S.A.S.)                                                      | 17/08/2022 | 4324749 | 22315183.8 |        |
| 4324906 | Life Technologies Corporation                                        | 31/12/2014 | 4324906 | 23205290.2 |        |
| 4325122 | BJB GmbH & Co. KG                                                    | 16/05/2023 | 4325122 | 23173617.4 | German |
| 4325221 | Siemens Healthcare Diagnostics Inc.                                  | 19/09/2019 | 4325221 | 23203194.8 |        |
| 4325450 | Kingfar International Inc.                                           | 28/12/2022 | 4325450 | 22216993.0 |        |
| 4325460 | Volvo Car Corporation                                                | 18/08/2022 | 4325460 | 22190936.9 |        |
| 4325465 | Pablo Air Co., Ltd.                                                  | 25/07/2023 | 4325465 | 23187416.5 |        |
| 4325497 | Changxin Memory Technologies, Inc.                                   | 08/07/2022 | 4325497 | 22793374.4 |        |
| 4325577 | Suzhou Loongspeed Semiconductor Technology Co., Ltd.                 | 14/04/2022 | 4325577 | 22936904.6 |        |
| 4325875 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 17/12/2019 | 4325875 | 24150460.4 | German |
| 4326048 | Husqvarna AB                                                         | 29/03/2022 | 4326048 | 22714639.6 |        |
| 4326612 | Starcopter GmbH                                                      | 21/04/2022 | 4326612 | 22724657.6 | German |
| 4326973 | Ari, Bayram                                                          | 16/09/2022 | 4326973 | 22865915.7 |        |
| 4327739 | Casio Computer Co., Ltd.                                             | 27/07/2023 | 4327739 | 23188065.9 |        |



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| 4328412 | Sandvik Mining and Construction Tools AB                                                     | 25/08/2022 | 4328412 | 22192053.1 |        |
| 4328700 | Great Wall Motor Company Limited                                                             | 30/03/2022 | 4328700 | 22806339.2 |        |
| 4328794 | OMRON Corporation                                                                            | 28/07/2023 | 4328794 | 23188558.3 |        |
| 4328809 | Origin Quantum Computing Technology (Hefei) Co., Ltd                                         | 28/07/2022 | 4328809 | 22848646.0 |        |
| 4329132 | LG Energy Solution, Ltd.                                                                     | 06/01/2023 | 4329132 | 23756513.0 |        |
| 4329226 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                         | 22/04/2021 | 4329226 | 21937344.6 |        |
| 4329348 | Giesecke+Devrient Mobile Security Germany GmbH                                               | 26/05/2021 | 4329348 | 23020555.1 | German |
| 4330138 | Recaro Aircraft Seating GmbH & Co. KG                                                        | 28/04/2022 | 4330138 | 22726616.0 | German |
| 4331036 | Hefei Gotion High-Tech Power Energy Co., Ltd.                                                | 12/07/2021 | 4331036 | 21949560.3 |        |
| 4331425 | Fratelli Berdin S.r.l.                                                                       | 25/05/2023 | 4331425 | 23020248.3 |        |
| 4331490 | Shanghai United Imaging Healthcare Co., Ltd.                                                 | 11/06/2021 | 4331490 | 21944660.6 |        |
| 4331634 | Waldemar Link GmbH & Co. KG                                                                  | 03/09/2020 | 4331634 | 24153629.1 | German |
| 4331999 | Rohr, Inc.                                                                                   | 04/09/2023 | 4331999 | 23195241.7 |        |
| 4332046 | Cedes AG                                                                                     | 01/09/2022 | 4332046 | 22193528.1 | German |
| 4332252 | NIPPON STEEL CORPORATION                                                                     | 14/03/2022 | 4332252 | 22795325.4 |        |
| 4332262 | NIPPON STEEL CORPORATION                                                                     | 14/03/2022 | 4332262 | 22795323.9 |        |
| 4332536 | PackSys Global AG                                                                            | 02/09/2022 | 4332536 | 22193757.6 | German |
| 4332723 | Samsung Electronics Co., Ltd.                                                                | 21/09/2022 | 4332723 | 22890172.4 |        |
| 4332731 | Kingfar International Inc.                                                                   | 28/12/2022 | 4332731 | 22216994.8 |        |
| 4332883 | Siemens Healthineers AG                                                                      | 01/09/2022 | 4332883 | 22193355.9 |        |
| 4333210 | Honor Device Co., Ltd.                                                                       | 26/04/2023 | 4333210 | 23801289.2 |        |
| 4333309 | AccelerComm Ltd                                                                              | 12/06/2018 | 4333309 | 24150456.2 |        |
| 4333310 | Technische Universität Dresden                                                               | 31/08/2023 | 4333310 | 23194604.7 |        |
| 4333779 | Bauerfeind AG                                                                                | 05/05/2022 | 4333779 | 22728131.8 | German |
| 4334232 | Liftra IP ApS                                                                                | 03/05/2022 | 4334232 | 22727794.4 |        |
| 4335027 | DeepDrive GmbH                                                                               | 10/01/2023 | 4335027 | 23700187.0 | German |
| 4335319 | ETA SA Manufacture Horlogère Suisse                                                          | 09/09/2022 | 4335319 | 22194856.5 | French |
| 4335328 | Vorwerk & Co. Interholding GmbH                                                              | 06/09/2022 | 4335328 | 22194188.3 | German |
| 4335392 | Siemens Healthineers Endovascular Robotics, Inc.                                             | 07/09/2023 | 4335392 | 23196076.6 |        |
| 4335427 | Samsung Electronics Co., Ltd.                                                                | 03/06/2022 | 4335427 | 22820490.5 |        |
| 4335657 | Sumitomo Rubber Industries, Ltd.                                                             | 23/08/2023 | 4335657 | 23192879.7 |        |
| 4335700 | Motherson Innovations Company Ltd.                                                           | 06/09/2023 | 4335700 | 23195587.3 |        |
| 4335715 | LEITNER S.p.A.                                                                               | 06/09/2023 | 4335715 | 23195667.3 |        |
| 4335746 | B/E Aerospace, Inc.                                                                          | 04/09/2023 | 4335746 | 23195071.8 |        |
| 4335887 | Ricoh Company, Ltd.                                                                          | 05/09/2023 | 4335887 | 23195354.8 |        |
| 4335928 | BillionToOne, Inc.                                                                           | 06/08/2018 | 4335928 | 23211331.6 |        |
| 4335944 | SUMITOMO ELECTRIC INDUSTRIES, LTD.                                                           | 15/03/2022 | 4335944 | 22932005.6 |        |
| 4336004 | MINEBEA ACCESSOLUTIONS ITALIA S.P.A.                                                         | 08/09/2022 | 4336004 | 22194517.3 |        |
| 4336017 | RTX Corporation                                                                              | 05/09/2023 | 4336017 | 23195545.1 |        |
| 4336100 | Vaillant GmbH                                                                                | 06/09/2023 | 4336100 | 23195740.8 | German |
| 4336492 | Harman International Industries, Incorporated                                                | 07/09/2023 | 4336492 | 23195870.3 |        |
| 4336639 | LG Energy Solution, Ltd.                                                                     | 07/09/2022 | 4336639 | 22867705.0 |        |
| 4336807 | Samsung Electronics Co., Ltd.                                                                | 04/08/2022 | 4336807 | 22898762.4 |        |
| 4337926 | Teknologian Tutkimuskeskus VTT OY                                                            | 05/05/2022 | 4337926 | 22723154.5 |        |
| 4338083 | Koch, Dirk<br>Technische Universität Darmstadt<br>Katholieke Universiteit Leuven<br>Imec VZW | 09/05/2022 | 4338083 | 22728217.5 |        |
| 4338599 | Mizkan Holdings Co., Ltd.                                                                    | 03/06/2022 | 4338599 | 22816237.6 |        |
| 4338638 | Comadur S.A.                                                                                 | 16/09/2022 | 4338638 | 22196167.5 | French |
| 4338815 | MANN+HUMMEL GmbH                                                                             | 19/09/2022 | 4338815 | 22196309.3 |        |
| 4338991 | IVECO S.P.A.                                                                                 | 18/09/2023 | 4338991 | 23197873.5 |        |
| 4338992 | MANN+HUMMEL GmbH                                                                             | 19/09/2022 | 4338992 | 22196307.7 |        |

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| 4339227 | JNC Corporation                                                                                | 16/11/2021 | 4339227 | 21941999.1 |        |
| 4339303 | JFE Steel Corporation                                                                          | 26/05/2022 | 4339303 | 22828144.0 |        |
| 4339558 | Alps Alpine Co., Ltd.                                                                          | 06/09/2023 | 4339558 | 23195811.7 |        |
| 4339621 | Simmonds Precision Products, Inc.                                                              | 15/09/2023 | 4339621 | 23197784.4 |        |
| 4339869 | Taste and Aroma Strategic Research Institute Co., Ltd.                                         | 09/05/2022 | 4339869 | 22807451.4 |        |
| 4339883 | Siemens Healthineers AG                                                                        | 16/09/2022 | 4339883 | 22196031.3 |        |
| 4339905 | NVIDIA Corporation                                                                             | 17/07/2019 | 4339905 | 24154963.3 |        |
| 4340087 | LG Energy Solution, Ltd.                                                                       | 20/04/2023 | 4340087 | 23818216.6 |        |
| 4340353 | OmniVision Sensor Solution (Shanghai) Co., Ltd                                                 | 17/06/2021 | 4340353 | 21944672.1 |        |
| 4340409 | Apple Inc.                                                                                     | 27/05/2016 | 4340409 | 24154943.5 |        |
| 4340418 | STMicroelectronics S.r.l.                                                                      | 29/08/2023 | 4340418 | 23193855.6 |        |
| 4340559 | Hamilton Sundstrand Corporation                                                                | 13/09/2023 | 4340559 | 23197281.1 |        |
| 4340597 | Sierra Space Corporation                                                                       | 18/05/2022 | 4340597 | 22729949.2 |        |
| 4341046 | Atlas Copco Industrial Technique AB                                                            | 29/04/2022 | 4341046 | 22726635.0 |        |
| 4342353 | Yunjing Intelligence (Shenzhen) Co., Ltd. Yunjing Intelligence Innovation (Shenzhen) Co., Ltd. | 27/07/2022 | 4342353 | 22946055.5 |        |
| 4342802 | Rockwell Collins, Inc.                                                                         | 20/09/2023 | 4342802 | 23198598.7 |        |
| 4343174 | Getriebebau NORD GmbH & Co. KG                                                                 | 23/09/2022 | 4343174 | 22197286.2 | German |
| 4343350 | LG Energy Solution, Ltd.                                                                       | 03/01/2023 | 4343350 | 23737350.1 |        |
| 4343480 | Vorwerk & Co. Interholding GmbH                                                                | 21/09/2022 | 4343480 | 22196756.5 | German |
| 4343732 | Hyundai Mobis Co., Ltd.                                                                        | 11/09/2023 | 4343732 | 23196554.2 |        |
| 4343749 | Beijing Xiaomi Mobile Software Co., Ltd.                                                       | 28/12/2022 | 4343749 | 22216964.1 |        |
| 4343878 | LG Energy Solution, Ltd.                                                                       | 31/08/2023 | 4343878 | 23194576.7 |        |
| 4343902 | LG Energy Solution, Ltd.                                                                       | 19/07/2022 | 4343902 | 22853301.4 |        |
| 4343967 | Samsung Electronics Co., Ltd.                                                                  | 26/05/2023 | 4343967 | 23741963.5 |        |
| 4344131 | Airbus DS SLC                                                                                  | 19/09/2023 | 4344131 | 23198159.8 | French |
| 4344551 | Arla Foods amba                                                                                | 28/09/2022 | 4344551 | 22198455.2 |        |
| 4345240 | Alpha Deuren International BV                                                                  | 19/09/2023 | 4345240 | 23198279.4 | German |
| 4345261 | RTX Corporation                                                                                | 13/09/2023 | 4345261 | 23197158.1 |        |
| 4345287 | Beijing Goldwind Science & Creation Windpower Equipment Co. Ltd.                               | 29/09/2022 | 4345287 | 22909430.5 |        |
| 4345434 | Fisher & Paykel Healthcare Limited                                                             | 15/09/2014 | 4345434 | 23217534.9 |        |
| 4345503 | Sndway Technology (Guangdong) Co., Ltd.                                                        | 27/09/2023 | 4345503 | 23200021.6 |        |
| 4345512 | Siemens Aktiengesellschaft                                                                     | 28/09/2022 | 4345512 | 22198278.8 | German |
| 4345792 | The Boeing Company                                                                             | 31/08/2023 | 4345792 | 23194438.0 |        |
| 4346077 | STMicroelectronics (Tours) SAS                                                                 | 26/09/2023 | 4346077 | 23199917.8 | French |
| 4347024 | Sunnutrpharma S.r.l.                                                                           | 30/05/2022 | 4347024 | 22734037.9 |        |
| 4347031 | Vertex Pharmaceuticals Incorporated                                                            | 03/06/2022 | 4347031 | 22740607.1 |        |
| 4347348 | UNIPART RAIL LIMITED                                                                           | 27/05/2022 | 4347348 | 22728961.8 |        |
| 4347349 | UNIPART RAIL LIMITED                                                                           | 27/05/2022 | 4347349 | 22728962.6 |        |
| 4347363 | Renault s.a.s                                                                                  | 01/06/2022 | 4347363 | 22731242.8 | French |
| 4348444 | GENENTECH, INC.                                                                                | 20/05/2022 | 4348444 | 22731391.3 |        |
| 4348777 | Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik                     | 02/06/2022 | 4348777 | 22734497.5 | German |
| 4349064 | ZTE Corporation                                                                                | 09/09/2021 | 4349064 | 21956359.0 |        |
| 4350082 | KOBELCO CONSTRUCTION MACHINERY CO., LTD.                                                       | 08/03/2022 | 4350082 | 22832450.5 |        |
| 4350159 | Harken Incorporated                                                                            | 09/10/2023 | 4350159 | 23202443.0 |        |
| 4350177 | Multipond Wägetechnik GmbH                                                                     | 04/09/2023 | 4350177 | 23195107.0 | German |
| 4350228 | Midea Group Co., Ltd. GD Midea Air-Conditioning Equipment Co., Ltd.                            | 30/09/2021 | 4350228 | 21944807.3 |        |
| 4350262 | Hisense Ronshen (Guangdong) Refrigerator Co., Ltd.                                             | 30/03/2022 | 4350262 | 22810192.9 |        |
| 4350296 | Waymo LLC                                                                                      | 09/05/2019 | 4350296 | 24152446.1 |        |
| 4350754 | NXP USA, Inc.                                                                                  | 02/10/2023 | 4350754 | 23201269.0 |        |
| 4352689 | Raytheon Company                                                                               | 06/06/2022 | 4352689 | 22738800.6 |        |
| 4352726 | Merlyn Mind, Inc.                                                                              | 03/05/2022 | 4352726 | 22725045.3 |        |

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| 4353080 | Qingdao Blue Granary Marine Fishery Development Co., Ltd.<br>Qingdao Blue Granary Marine Engineering Technology Co., Ltd. | 11/05/2023 | 4353080 | 23806793.8 |        |
| 4353102 | Nicoventures Trading Limited                                                                                              | 13/01/2022 | 4353102 | 24161250.6 |        |
| 4353391 | Trafimet Group S.p.A.                                                                                                     | 25/09/2023 | 4353391 | 23199345.2 |        |
| 4353843 | JFE Steel Corporation                                                                                                     | 12/05/2022 | 4353843 | 22819990.7 |        |
| 4354208 | Anhui Easpeed Technology Co., Ltd.                                                                                        | 19/05/2022 | 4354208 | 22819322.3 |        |
| 4354455 | Insulet Corporation                                                                                                       | 04/12/2020 | 4354455 | 24159863.0 |        |
| 4354661 | Honor Device Co., Ltd.                                                                                                    | 13/04/2021 | 4354661 | 23212732.4 |        |
| 4355064 | United Microelectronics Corp.                                                                                             | 27/05/2020 | 4355064 | 24160422.2 |        |
| 4355653 | SAFRAN AIRCRAFT ENGINES                                                                                                   | 13/06/2022 | 4355653 | 22735023.8 | French |
| 4355699 | Glaston Switzerland AG                                                                                                    | 15/06/2022 | 4355699 | 22733152.7 |        |
| 4356078 | Endress+Hauser Flowtec AG                                                                                                 | 18/05/2022 | 4356078 | 22729608.4 | German |
| 4356828 | Fisher & Paykel Healthcare Limited                                                                                        | 04/09/2015 | 4356828 | 24152734.0 |        |
| 4356923 | Universidade de Aveiro                                                                                                    | 20/10/2023 | 4356923 | 23205060.9 |        |
| 4357063 | Standex International Corporation                                                                                         | 31/07/2023 | 4357063 | 23188779.5 |        |
| 4357084 | Broetje-Automation GmbH                                                                                                   | 27/07/2017 | 4357084 | 24162350.3 | German |
| 4357231 | Jetworx GmbH                                                                                                              | 27/09/2023 | 4357231 | 23200166.9 | German |
| 4357386 | Lg Chem, Ltd.                                                                                                             | 04/08/2022 | 4357386 | 22853485.5 |        |
| 4357433 | Honor Device Co., Ltd.                                                                                                    | 19/08/2022 | 4357433 | 22888948.1 |        |
| 4357574 | Veka AG                                                                                                                   | 26/09/2023 | 4357574 | 23199572.1 | German |
| 4357674 | General Electric Company                                                                                                  | 04/09/2023 | 4357674 | 23195248.2 |        |
| 4358194 | LG Energy Solution, Ltd.                                                                                                  | 27/07/2020 | 4358194 | 24160384.4 |        |
| 4358558 | Huawei Technologies Co., Ltd.                                                                                             | 14/08/2015 | 4358558 | 23216707.2 |        |
| 4358611 | Samsung Electronics Co., Ltd.                                                                                             | 23/11/2020 | 4358611 | 24162753.8 |        |
| 4358672 | Changxin Memory Technologies, Inc.                                                                                        | 09/01/2023 | 4358672 | 23821862.2 |        |
| 4359218 | Stolle Machinery Company, LLC                                                                                             | 08/06/2022 | 4359218 | 22828998.9 |        |
| 4359239 | VOLVO TRUCK CORPORATION                                                                                                   | 24/06/2021 | 4359239 | 21736294.6 |        |
| 4359763 | Elichens                                                                                                                  | 21/06/2022 | 4359763 | 22733672.4 | French |
| 4359832 | Essilor International                                                                                                     | 21/06/2022 | 4359832 | 22733470.3 |        |
| 4360510 | PepsiCo, Inc.                                                                                                             | 14/01/2016 | 4360510 | 24164317.0 |        |
| 4360568 | Cornerstone Technology (Shenzhen) Limited                                                                                 | 22/06/2022 | 4360568 | 22841147.6 |        |
| 4360632 | Gilead Sciences, Inc.                                                                                                     | 13/01/2020 | 4360632 | 23215648.9 |        |
| 4361070 | LG Energy Solution, Ltd.                                                                                                  | 02/09/2022 | 4361070 | 22865113.9 |        |
| 4361542 | LG Electronics Inc.                                                                                                       | 20/12/2018 | 4361542 | 24162891.6 |        |
| 4361543 | LG Electronics Inc.                                                                                                       | 20/12/2018 | 4361543 | 24162895.7 |        |
| 4362330 | Shenzhen Shokz Co., Ltd.                                                                                                  | 06/12/2021 | 4362330 | 21966630.2 |        |
| 4362512 | Huawei Technologies Co., Ltd.                                                                                             | 05/07/2022 | 4362512 | 22841221.9 |        |
| 4363315 | Safran Landing Systems                                                                                                    | 24/06/2022 | 4363315 | 22734986.7 | French |
| 4363348 | The Heil Co.                                                                                                              | 28/06/2022 | 4363348 | 22834385.1 |        |
| 4363767 | Marelli Germany GmbH                                                                                                      | 22/06/2022 | 4363767 | 22734613.7 | German |
| 4364385 | Adeia Guides Inc.                                                                                                         | 20/12/2021 | 4364385 | 21844533.6 |        |
| 4364818 | 3M Innovative Properties Company                                                                                          | 15/03/2017 | 4364818 | 24165126.4 |        |
| 4365026 | VOLVO TRUCK CORPORATION                                                                                                   | 07/11/2022 | 4365026 | 22205766.3 |        |
| 4365438 | VESTAS WIND SYSTEMS A/S                                                                                                   | 15/12/2022 | 4365438 | 22213673.1 |        |
| 4365447 | Haier Smart Home Co., Ltd.<br>QINGDAO HAIER REFRIGERATOR CO., LTD.<br>HAIER US APPLIANCE SOLUTIONS, INC.                  | 30/06/2022 | 4365447 | 22832146.9 |        |
| 4365492 | Collins Engine Nozzles, Inc.                                                                                              | 18/11/2021 | 4365492 | 24165617.2 |        |
| 4365613 | LG Energy Solution, Ltd.                                                                                                  | 27/09/2022 | 4365613 | 22876810.7 |        |
| 4365911 | Masimo Corporation                                                                                                        | 22/02/2018 | 4365911 | 24163762.8 |        |
| 4366633 | Albert-Ludwigs-Universität Freiburg                                                                                       | 08/07/2022 | 4366633 | 22748022.5 | German |
| 4367045 | Weber Food Technology SE & Co. KG                                                                                         | 06/07/2022 | 4367045 | 22735488.3 | German |
| 4367465 | Energyintel Services Ltd                                                                                                  | 14/06/2022 | 4367465 | 22838118.2 |        |
| 4367558 | Fusion Bionic GmbH                                                                                                        | 04/07/2022 | 4367558 | 22746975.6 | German |
| 4368059 | Fidlock GmbH                                                                                                              | 21/09/2020 | 4368059 | 24155005.2 | German |
| 4368588 | Tur & Development SL                                                                                                      | 14/11/2022 | 4368588 | 22383097.7 |        |
| 4368867 | Oetiker NY, Inc.                                                                                                          | 09/11/2023 | 4368867 | 23208868.2 |        |

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| 4369335 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 18/07/2014 | 4369335 | 24167391.2 |        |
| 4369693 | Samsung Electronics Co., Ltd.                                        | 05/09/2022 | 4369693 | 22873129.5 |        |
| 4369862 | BJB GmbH & Co. KG                                                    | 15/09/2023 | 4369862 | 23197739.8 | German |
| 4370875 | Neura Robotics GmbH                                                  | 01/07/2022 | 4370875 | 22736292.8 | German |
| 4371249 | Ciena Corporation                                                    | 25/09/2023 | 4371249 | 23793530.9 |        |
| 4371299 | Deere & Company                                                      | 09/07/2022 | 4371299 | 22753822.0 |        |
| 4371534 | Stryker Corporation                                                  | 10/05/2016 | 4371534 | 24166098.4 |        |
| 4371605 | Shenzhen Ulike Smart Electronics Co., Ltd.                           | 08/06/2023 | 4371605 | 23761415.1 |        |
| 4372066 | Samsung Electronics Co., Ltd.                                        | 17/11/2023 | 4372066 | 23210508.0 |        |
| 4372081 | CELLSCRIPT, LLC                                                      | 31/12/2012 | 4372081 | 24154567.2 |        |
| 4372197 | Benedetto, Nicola                                                    | 23/10/2023 | 4372197 | 23205271.2 |        |
| 4372345 | Samsung Electronics Co., Ltd.                                        | 15/09/2022 | 4372345 | 22911511.8 |        |
| 4372360 | Contemporary Amperex Technology (Hong Kong) Limited                  | 27/03/2023 | 4372360 | 23734890.9 |        |
| 4372533 | Apple Inc.                                                           | 13/05/2022 | 4372533 | 24160234.1 |        |
| 4372628 | Alice & Bob                                                          | 16/11/2022 | 4372628 | 22306684.6 |        |
| 4373061 | Samsung Electronics Co., Ltd.                                        | 26/09/2023 | 4373061 | 23809942.8 |        |
| 4374124 | Laabmayr, Robert                                                     | 21/07/2022 | 4374124 | 22758122.0 | German |
| 4374238 | Flying Whales                                                        | 21/07/2022 | 4374238 | 22758249.1 | French |
| 4374724 | Philip Morris Products, S.A.                                         | 10/06/2021 | 4374724 | 24169432.2 |        |
| 4374888 | Stryker Corporation                                                  | 13/12/2012 | 4374888 | 24169234.2 |        |
| 4374919 | Regeneron Pharmaceuticals, Inc.<br>Sanofi Biotechnology              | 04/09/2013 | 4374919 | 24163612.5 |        |
| 4374938 | Topgolf International, Inc.                                          | 18/09/2020 | 4374938 | 24169887.7 |        |
| 4375086 | Pirelli Tyre S.p.A.                                                  | 06/08/2020 | 4375086 | 24167641.0 |        |
| 4375196 | Airbus Operations Limited                                            | 22/11/2023 | 4375196 | 23211593.1 |        |
| 4375573 | Ademco Inc.                                                          | 23/11/2022 | 4375573 | 22209227.2 |        |
| 4375581 | LG Electronics Inc.                                                  | 01/12/2017 | 4375581 | 24169559.2 |        |
| 4375916 | Daikin Industries, Ltd.                                              | 20/07/2022 | 4375916 | 22845960.8 |        |
| 4375956 | L & T Technology Services Limited                                    | 13/03/2023 | 4375956 | 23161441.3 |        |
| 4376447 | Samsung Electronics Co., Ltd.                                        | 20/09/2022 | 4376447 | 22890170.8 |        |
| 4377514 | Sun Chemical Corporation                                             | 20/09/2022 | 4377514 | 22789394.8 |        |
| 4377949 | Waldvogel, Urs                                                       | 28/07/2022 | 4377949 | 22757577.6 | German |
| 4378089 | QUALCOMM INCORPORATED                                                | 26/07/2022 | 4378089 | 22754680.1 |        |
| 4380434 | Aalto University Foundation sr                                       | 03/08/2022 | 4380434 | 22768255.6 |        |
| 4380658 | ZOLL Medical Corporation                                             | 05/08/2021 | 4380658 | 21762256.2 |        |
| 4380784 | SIG Services AG                                                      | 20/09/2022 | 4380784 | 22790295.4 | German |
| 4381130 | DuPont Safety & Construction, Inc.                                   | 24/06/2022 | 4381130 | 22764959.7 |        |
| 4381874 | QUALCOMM INCORPORATED                                                | 05/08/2022 | 4381874 | 22758413.3 |        |
| 4381882 | QUALCOMM INCORPORATED                                                | 30/06/2022 | 4381882 | 22747916.9 |        |
| 4382056 | Ethicon LLC                                                          | 31/05/2013 | 4382056 | 24162313.1 |        |
| 4382281 | Instituto Politécnico De Leiria                                      | 12/12/2022 | 4382281 | 22212802.7 |        |
| 4382375 | HL Mando Corporation                                                 | 06/03/2020 | 4382375 | 24150801.9 |        |
| 4382435 | Ishida Co., Ltd.                                                     | 15/11/2023 | 4382435 | 23210003.2 |        |
| 4382507 | LG Chem, Ltd.                                                        | 13/09/2022 | 4382507 | 22867761.3 |        |
| 4382516 | LG Chem, Ltd.                                                        | 13/09/2022 | 4382516 | 22867763.9 |        |
| 4382647 | Saurer Spinning Solutions GmbH & Co. KG                              | 30/11/2023 | 4382647 | 23213198.7 | German |
| 4382811 | E.G.O. Elektro-Gerätebau GmbH                                        | 29/11/2023 | 4382811 | 23213070.8 | German |
| 4382857 | Continental Reifen Deutschland GmbH                                  | 20/11/2023 | 4382857 | 23210920.7 | German |
| 4383762 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                 | 20/08/2021 | 4383762 | 21953827.9 |        |
| 4384426 | Daimler Truck AG                                                     | 02/08/2022 | 4384426 | 22760712.4 | German |
| 4384776 | Jaguar Land Rover Limited                                            | 12/08/2022 | 4384776 | 22762098.6 |        |
| 4384978 | Siemens Shanghai Medical Equipment Ltd.                              | 18/09/2021 | 4384978 | 21798266.9 |        |
| 4385287 | Signify Holding B.V.                                                 | 11/08/2022 | 4385287 | 22765056.1 |        |
| 4385550 | Washington University                                                | 26/09/2019 | 4385550 | 24150247.5 |        |
| 4386170 | Athmer OHG                                                           | 14/12/2022 | 4386170 | 22213649.1 | German |
| 4386403 | Commissariat à l'Energie Atomique et aux Energies Alternatives       | 07/11/2023 | 4386403 | 23208105.9 | French |
| 4386493 | GOOGLE LLC                                                           | 17/06/2022 | 4386493 | 24174178.4 |        |

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| 4387185 | Softbank Corp.                                        | 29/09/2022 | 4387185 | 22878421.1 | French |        |
| 4387269 | Beijing Honor Device Co., Ltd.                        | 24/08/2022 | 4387269 | 22863266.7 |        |        |
| 4388766 | Cisco Technology, Inc.                                | 10/08/2022 | 4388766 | 22769510.3 |        |        |
| 4389059 | Log10 B.V.                                            | 22/03/2019 | 4389059 | 24161565.7 |        |        |
| 4389520 | VALEO SYSTEMES THERMIQUES                             | 21/12/2023 | 4389520 | 23219101.5 |        |        |
| 4389710 | boTec GmbH                                            | 19/12/2022 | 4389710 | 22214659.9 |        |        |
| 4390202 | SAINT-GOBAIN ISOVER                                   | 21/12/2022 | 4390202 | 22306974.1 |        |        |
| 4390252 | LG Electronics Inc.                                   | 19/12/2023 | 4390252 | 23217852.5 |        |        |
| 4390259 | Samsung Electronics Co., Ltd.                         | 15/12/2022 | 4390259 | 22929092.9 |        |        |
|         | Industry Foundation of Chonnam National University    |            |         |            |        |        |
| 4390349 | MITSUBISHI ELECTRIC CORPORATION                       | 19/12/2022 | 4390349 | 22306944.4 | French |        |
| 4390416 | VOLVO TRUCK CORPORATION                               | 20/12/2022 | 4390416 | 22214914.8 |        |        |
| 4390419 | BYD Company Limited                                   | 14/09/2022 | 4390419 | 22897312.9 |        |        |
| 4390490 | Hexatronic UK                                         | 22/12/2022 | 4390490 | 22216035.0 |        |        |
| 4390639 | Honor Device Co., Ltd.                                | 27/03/2023 | 4390639 | 23825354.6 |        |        |
| 4390685 | Huawei Technologies Co. Ltd.                          | 21/09/2022 | 4390685 | 22874746.5 |        |        |
| 4390822 | Calabrio, Inc.                                        | 21/12/2023 | 4390822 | 23219381.3 |        |        |
| 4390897 | HYUNDAI MOTOR COMPANY                                 | 08/11/2023 | 4390897 | 23208515.9 |        |        |
|         | Kia Corporation                                       |            |         |            |        |        |
| 4390921 | QUALCOMM Incorporated                                 | 26/05/2016 | 4390921 | 24160179.8 |        | French |
| 4391147 | LG Energy Solution, Ltd.                              | 02/09/2022 | 4391147 | 22865109.7 |        |        |
| 4391270 | Luxembourg Institute of Science and Technology (LIST) | 15/12/2023 | 4391270 | 23217187.6 |        |        |
| 4391348 | The Swatch Group Research and Development Ltd         | 23/12/2022 | 4391348 | 22216418.8 |        |        |
| 4391372 | Huawei Technologies Co. Ltd.                          | 27/08/2021 | 4391372 | 21954613.2 |        |        |
| 4391528 | Samsung Electronics Co., Ltd.                         | 04/01/2023 | 4391528 | 23737373.3 |        |        |
| 4391625 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  | 23/08/2021 | 4391625 | 21954451.7 |        |        |
| 4392626 | Renson Outdoor                                        | 23/08/2022 | 4392626 | 22760793.4 | German |        |
| 4392630 | PERI SE                                               | 12/08/2022 | 4392630 | 22792771.2 |        |        |
| 4392638 | Hunter Douglas Industries B.V.                        | 24/08/2022 | 4392638 | 22769164.9 |        |        |
| 4392858 | Samsung Electronics Co., Ltd.                         | 23/09/2022 | 4392858 | 22924314.2 |        |        |
| 4393340 | NIKE Innovate C.V.                                    | 28/05/2021 | 4393340 | 24175150.2 |        |        |
| 4393465 | Ceragem Co., Ltd.                                     | 12/01/2018 | 4393465 | 24176780.5 |        |        |
| 4393785 | Suzuki Motor Corporation                              | 07/12/2023 | 4393785 | 23214947.6 |        |        |
| 4393837 | Airnov, Inc.                                          | 30/12/2022 | 4393837 | 22217352.8 |        |        |
| 4393838 | Gonzalez Sanchez, Jose Francisco                      | 26/08/2022 | 4393838 | 22797805.3 |        |        |
| 4393903 | SABIC Global Technologies B.V.                        | 29/12/2022 | 4393903 | 22217073.0 |        | French |
| 4393913 | Peptinovo Biopharma Inc.                              | 28/12/2023 | 4393913 | 23220433.9 |        |        |
| 4394230 | LG Electronics Inc.                                   | 17/09/2014 | 4394230 | 24170507.8 |        |        |
| 4394365 | Rigaku Corporation                                    | 10/05/2022 | 4394365 | 22860895.6 |        |        |
| 4394550 | LG Display Co., Ltd.                                  | 20/12/2023 | 4394550 | 23218617.1 |        |        |
| 4395394 | Plaid Inc.                                            | 07/09/2016 | 4395394 | 24161038.5 |        |        |
| 4395489 | Honor Device Co., Ltd.                                | 21/04/2023 | 4395489 | 23810725.4 |        |        |
| 4395528 | Sun'Agri                                              | 12/08/2022 | 4395528 | 22762099.4 |        |        |
| 4396091 | Nicoventures Trading Limited                          | 30/08/2022 | 4396091 | 22769344.7 |        |        |
| 4396590 | Analog Devices International Unlimited Company        | 02/09/2022 | 4396590 | 22772952.2 | German |        |
| 4396591 | Analog Devices International Unlimited Company        | 05/09/2022 | 4396591 | 22801705.9 |        |        |
| 4397165 | Amazonen-Werke H. Dreyer SE & Co. KG                  | 23/01/2023 | 4397165 | 24175321.9 |        |        |
| 4397647 | LG Chem, Ltd.                                         | 01/09/2023 | 4397647 | 23863411.7 |        |        |
| 4397649 | LG Chem, Ltd.                                         | 01/09/2023 | 4397649 | 23863413.3 |        |        |
| 4398063 | The Boeing Company                                    | 03/01/2024 | 4398063 | 24150234.3 |        |        |
| 4398745 | Philip Morris Products, S.A.                          | 08/09/2022 | 4398745 | 22773693.1 |        |        |
| 4398751 | Philip Morris Products, S.A.                          | 02/09/2022 | 4398751 | 22773312.8 |        |        |
| 4398865 | L'OREAL                                               | 01/09/2022 | 4398865 | 22772917.5 |        |        |
| 4399327 | Becton, Dickinson and Company                         | 07/09/2022 | 4399327 | 22785883.4 |        | German |
| 4399576 | Fraba B.V.                                            | 06/09/2021 | 4399576 | 21773075.3 |        |        |

|         |                                                                                    |            |         |            |        |
|---------|------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4399651 | Siemens Aktiengesellschaft                                                         | 16/09/2022 | 4399651 | 22786789.2 |        |
| 4399652 | University of Surrey                                                               | 09/09/2022 | 4399652 | 22769749.7 |        |
| 4399739 | Schunk Xycarb Technology B.V.                                                      | 05/09/2022 | 4399739 | 22765956.2 |        |
| 4399890 | THALES DIS FRANCE SAS                                                              | 02/09/2022 | 4399890 | 22776883.5 |        |
| 4399958 | CLAAS Saulgau GmbH                                                                 | 30/11/2023 | 4399958 | 23213419.7 | German |
| 4400425 | AIRBUS OPERATIONS                                                                  | 12/01/2024 | 4400425 | 24151507.1 | French |
| 4400519 | SHANGHAI NK CELLTECH CO., LTD.                                                     | 30/06/2022 | 4400519 | 22909227.5 |        |
| 4400530 | Zhuhai Wango Chemical Co., Ltd.<br>KINGFA SCI. & TECH. CO., LTD.                   | 09/09/2022 | 4400530 | 22869137.4 |        |
| 4400691 | Weatherford Technology Holdings, LLC                                               | 14/10/2020 | 4400691 | 24180018.4 |        |
| 4400825 | Contemporary Amperex Technology (Hong Kong) Limited                                | 26/05/2023 | 4400825 | 23789475.3 |        |
| 4401139 | Yangtze Memory Technologies Co., Ltd.                                              | 14/04/2020 | 4401139 | 24179254.8 |        |
| 4401334 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                            | 15/08/2019 | 4401334 | 24178533.6 |        |
| 4401594 | W. L. Gore & Associates GmbH                                                       | 16/09/2022 | 4401594 | 22800323.2 |        |
| 4401851 | Caterpillar Energy Solutions GmbH                                                  | 09/09/2022 | 4401851 | 22802895.7 |        |
| 4401925 | Emanuel - S.R.L.                                                                   | 15/09/2022 | 4401925 | 22786438.6 |        |
| 4401986 | SICPA HOLDING SA                                                                   | 14/09/2022 | 4401986 | 22789506.7 |        |
| 4402117 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                  | 08/09/2022 | 4402117 | 22789951.5 | French |
| 4402233 | Unilever Global IP Limited                                                         | 12/09/2022 | 4402233 | 22786761.1 |        |
| 4402365 | Itrec B.V.                                                                         | 16/09/2022 | 4402365 | 22790275.6 |        |
| 4402409 | Sacmi Forni & Filter S.p.A.                                                        | 16/09/2022 | 4402409 | 22782589.0 |        |
| 4402685 | CareFusion 303, Inc.                                                               | 13/09/2022 | 4402685 | 22786184.6 |        |
| 4403155 | Minebea Mitsumi Inc.                                                               | 14/09/2022 | 4403155 | 22870010.0 |        |
| 4403394 | VOLVO TRUCK CORPORATION                                                            | 20/01/2023 | 4403394 | 23152675.7 |        |
| 4403415 | Beijing CHJ Information Technology Co., Ltd.                                       | 13/09/2022 | 4403415 | 22869167.1 |        |
| 4403425 | Deutsches Zentrum für Luft- und Raumfahrt e.V.                                     | 10/01/2024 | 4403425 | 24151096.5 | German |
| 4403432 | Wuhan Lotus Cars Co., Ltd                                                          | 05/01/2023 | 4403432 | 23737115.8 |        |
| 4403454 | Advantaria SL                                                                      | 15/09/2022 | 4403454 | 22792886.8 |        |
| 4403877 | ABB SCHWEIZ AG                                                                     | 17/01/2023 | 4403877 | 23151968.7 |        |
| 4403930 | EET - Efficient Energy Technology GmbH                                             | 20/01/2023 | 4403930 | 23152652.6 | German |
| 4403937 | ABB SCHWEIZ AG                                                                     | 18/01/2023 | 4403937 | 23152288.9 |        |
| 4403980 | Samsung Electronics Co., Ltd.                                                      | 08/09/2022 | 4403980 | 22890156.7 |        |
| 4404036 | Samsung Display Co., Ltd.                                                          | 16/01/2024 | 4404036 | 24152152.5 |        |
| 4404181 | Reeds 'n Stuff GmbH                                                                | 16/01/2024 | 4404181 | 24152085.7 | German |
| 4404987 | Università degli Studi di Torino                                                   | 21/09/2022 | 4404987 | 22790573.4 |        |
| 4404988 | Evonik Operations GmbH                                                             | 16/09/2022 | 4404988 | 22790271.5 |        |
| 4405020 | CONMED Corporation                                                                 | 23/08/2022 | 4405020 | 22772681.7 |        |
| 4405071 | Cobra Beheer B.V.                                                                  | 22/09/2022 | 4405071 | 22777205.0 |        |
| 4405166 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                  | 12/09/2022 | 4405166 | 22785765.3 | French |
| 4405185 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                  | 19/09/2022 | 4405185 | 22789645.3 | French |
| 4405189 | Bulmor Holding GmbH                                                                | 23/09/2022 | 4405189 | 22797623.0 | German |
| 4405209 | Cordstrap B.V.                                                                     | 20/09/2022 | 4405209 | 22793389.2 |        |
| 4405220 | ETO MAGNETIC GmbH                                                                  | 05/09/2022 | 4405220 | 22773222.9 | German |
| 4405261 | FEDRIGONI S.P.A.                                                                   | 26/09/2022 | 4405261 | 22792889.2 |        |
| 4405278 | Ocado Innovation Limited                                                           | 20/09/2022 | 4405278 | 22777249.8 |        |
| 4405415 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                  | 20/09/2022 | 4405415 | 22789272.6 | French |
| 4405611 | Max-Planck-Gesellschaft zur Förderung der<br>Wissenschaften e.V.                   | 13/09/2022 | 4405611 | 22789490.4 | German |
| 4405679 | Università Degli Studi Di Messina<br>Alma Mater Studiorum Università di<br>Bologna | 21/09/2022 | 4405679 | 22790362.2 |        |
| 4405868 | Mazor Robotics Ltd.                                                                | 21/09/2022 | 4405868 | 22803079.7 |        |
| 4406426 | Körber Technologies GmbH                                                           | 27/04/2021 | 4406426 | 24182837.5 | German |
| 4406482 | Battelle Memorial Institute                                                        | 02/06/2016 | 4406482 | 24178616.9 |        |

|         |                                                      |            |         |            |        |
|---------|------------------------------------------------------|------------|---------|------------|--------|
| 4406576 | Fisher & Paykel Healthcare Limited                   | 24/02/2020 | 4406576 | 24167487.8 |        |
| 4406717 | The Boeing Company                                   | 13/11/2023 | 4406717 | 23209353.4 |        |
| 4406819 | Yamaha Hatsudoki Kabushiki Kaisha                    | 20/09/2023 | 4406819 | 23198460.0 |        |
| 4406944 | TOYOTA JIDOSHA KABUSHIKI KAISHA                      | 27/01/2023 | 4406944 | 23153617.8 |        |
| 4407023 | Aiage Life Science Corporation Ltd.                  | 30/11/2022 | 4407023 | 22946602.4 |        |
| 4407288 | SHENZHEN KUKI ELECTRONIC CO., LTD.                   | 09/01/2023 | 4407288 | 23711928.4 |        |
| 4407802 | Agency For Defense Development                       | 18/04/2023 | 4407802 | 23168471.3 |        |
| 4407897 | Marbeuf Conseil et Recherche                         | 25/01/2024 | 4407897 | 24154028.5 | French |
| 4408013 | Sony Semiconductor Solutions Corporation             | 24/03/2022 | 4408013 | 22872420.9 |        |
| 4408206 | Imperial Tobacco Limited                             | 09/09/2022 | 4408206 | 22782486.9 |        |
| 4408248 | Gorenje d.o.o.                                       | 27/09/2022 | 4408248 | 22782545.2 |        |
| 4408353 | Angiomed GmbH & Co. Medizintechnik KG                | 27/09/2021 | 4408353 | 21786117.8 |        |
| 4408372 | Amgen Inc.                                           | 27/09/2022 | 4408372 | 22803091.2 |        |
| 4408597 | Stellantis Auto SAS                                  | 02/09/2022 | 4408597 | 22782908.2 | French |
| 4408630 | The Gillette Company LLC                             | 29/09/2022 | 4408630 | 22794035.0 |        |
| 4408919 | SunCoal Industries GmbH                              | 27/09/2022 | 4408919 | 22797332.8 | German |
| 4409092 | Kraftwerk Living Technologies GmbH                   | 27/09/2022 | 4409092 | 22792748.0 | German |
| 4409130 | MWI Micro Wave Ignition AG                           | 09/09/2022 | 4409130 | 22777963.4 | German |
| 4409155 | Brembo S.p.A.                                        | 28/09/2022 | 4409155 | 22793228.2 |        |
| 4409186 | Zelup                                                | 30/09/2022 | 4409186 | 22797418.5 | French |
| 4409448 | Cymotive Technologies Ltd.                           | 06/10/2022 | 4409448 | 22878089.6 |        |
| 4410072 | Merck Patent GmbH                                    | 28/09/2022 | 4410072 | 22777264.7 | German |
| 4410073 | Merck Patent GmbH                                    | 28/09/2022 | 4410073 | 22777265.4 | German |
| 4410090 | CLAAS Saulgau GmbH                                   | 28/11/2023 | 4410090 | 23212734.0 | German |
| 4410213 | Siemens Healthineers AG                              | 06/02/2023 | 4410213 | 23155127.6 |        |
| 4410732 | J. Schmalz GmbH                                      | 26/01/2024 | 4410732 | 24154240.6 | German |
| 4410738 | Elmeco S.r.l.                                        | 31/01/2024 | 4410738 | 24154892.4 |        |
| 4410875 | MITSUBISHI GAS CHEMICAL COMPANY, INC.                | 28/09/2022 | 4410875 | 22876331.4 |        |
| 4411114 | Hamilton Sundstrand Corporation                      | 30/01/2024 | 4411114 | 24154670.4 |        |
| 4411225 | PRATT & WHITNEY CANADA CORP.                         | 29/01/2024 | 4411225 | 24154529.2 |        |
| 4411325 | Krohne Messtechnik GmbH                              | 27/11/2023 | 4411325 | 23212184.8 | German |
| 4411443 | JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED         | 05/12/2023 | 4411443 | 23214260.4 |        |
| 4411505 | ABB SCHWEIZ AG                                       | 03/02/2023 | 4411505 | 23154923.9 |        |
| 4411509 | Samsung Electronics Co., Ltd.                        | 20/09/2022 | 4411509 | 22887356.8 |        |
| 4412125 | Lenovo (Singapore) Pte. Ltd                          | 13/05/2021 | 4412125 | 24183529.7 |        |
| 4412837 | GACW Incorporated                                    | 03/10/2022 | 4412837 | 22797568.7 |        |
| 4412850 | Stellantis Auto SAS                                  | 01/09/2022 | 4412850 | 22773763.2 | French |
| 4412918 | Vitop Moulding S.R.L.                                | 08/08/2022 | 4412918 | 22765238.5 |        |
| 4413206 | Spellucci, Gianfranco                                | 06/10/2022 | 4413206 | 22802741.3 |        |
| 4413254 | Liftra IP ApS                                        | 28/09/2022 | 4413254 | 22778018.6 |        |
| 4413357 | Endress+Hauser Flowtec AG                            | 22/09/2022 | 4413357 | 22786033.5 | German |
| 4413482 | Microsoft Technology Licensing, LLC                  | 02/09/2022 | 4413482 | 22777844.6 |        |
| 4413953 | Edwards Lifesciences Corporation                     | 28/02/2019 | 4413953 | 24157306.2 |        |
| 4414199 | KUBOTA CORPORATION                                   | 28/07/2023 | 4414199 | 23306307.2 |        |
| 4414293 | Vaillant GmbH                                        | 19/01/2024 | 4414293 | 24152814.0 | German |
| 4414615 | Panasonic Intellectual Property Management Co., Ltd. | 20/09/2022 | 4414615 | 22878315.5 |        |
| 4414669 | Apator Miitors ApS                                   | 07/09/2012 | 4414669 | 24185668.1 |        |
| 4414852 | Samsung Electronics Co., Ltd.                        | 01/02/2024 | 4414852 | 24155399.9 |        |
| 4415365 | Sharp Kabushiki Kaisha                               | 06/03/2020 | 4415365 | 24185067.6 |        |
| 4415924 | Stellantis Auto SAS                                  | 08/09/2022 | 4415924 | 22789261.9 | French |
| 4416039 | Caterpillar Inc.                                     | 27/09/2022 | 4416039 | 22797162.9 |        |
| 4416100 | Wittur Holding GmbH                                  | 16/05/2022 | 4416100 | 22726818.2 |        |
| 4416357 | Kiekert Aktiengesellschaft                           | 28/09/2022 | 4416357 | 22789853.3 | German |
| 4416466 | Endress+Hauser Flowtec AG                            | 22/09/2022 | 4416466 | 22777997.2 | German |
| 4416515 | AMCAD Engineering                                    | 30/08/2022 | 4416515 | 22776996.5 | French |

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| 4416563 | International Business Machines Corporation                                        | 22/09/2022 | 4416563 | 22786363.6 |        |
| 4416757 | PINK GmbH Thermosysteme                                                            | 07/10/2022 | 4416757 | 22802034.3 | German |
| 4417249 | BTL Medical Solutions a.s.                                                         | 09/04/2020 | 4417249 | 24186251.5 |        |
| 4417352 | Amada Co., Ltd.                                                                    | 20/09/2022 | 4417352 | 22880727.7 |        |
|         | Amada Machinery Co., Ltd.                                                          |            |         |            |        |
| 4417826 | Huawei Technologies Co. Ltd.                                                       | 25/11/2022 | 4417826 | 22897942.3 |        |
| 4417853 | Nexans                                                                             | 15/02/2023 | 4417853 | 23305205.9 |        |
| 4418606 | NXP B.V.                                                                           | 12/02/2024 | 4418606 | 24157024.1 |        |
| 4419896 | H&T Rechargeable Solutions GmbH                                                    | 17/06/2022 | 4419896 | 22733455.4 |        |
| 4419926 | Elmos Semiconductor SE                                                             | 30/09/2022 | 4419926 | 22790227.7 | German |
| 4420065 | Google LLC                                                                         | 30/10/2023 | 4420065 | 23817266.2 |        |
| 4421300 | PRATT & WHITNEY CANADA CORP.                                                       | 13/02/2024 | 4421300 | 24157366.6 |        |
| 4421354 | Seiko Epson Corporation                                                            | 22/02/2024 | 4421354 | 24159070.2 |        |
| 4421389 | RTX Corporation                                                                    | 27/02/2024 | 4421389 | 24160046.9 |        |
| 4421562 | Seiko Epson Corporation                                                            | 27/02/2024 | 4421562 | 24159955.4 |        |
| 4421713 | Toshiba Tec Kabushiki Kaisha                                                       | 11/01/2024 | 4421713 | 24151327.4 |        |
| 4421756 | BULL SAS                                                                           | 27/02/2023 | 4421756 | 23305260.4 |        |
| 4421806 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                                | 25/11/2021 | 4421806 | 21965134.6 |        |
| 4422350 | HAIER SMART HOME CO., LTD.                                                         | 28/09/2022 | 4422350 | 22882612.9 |        |
|         | QINGDAO HAIER REFRIGERATOR CO., LTD.                                               |            |         |            |        |
| 4422942 | Bayerische Motoren Werke Aktiengesellschaft                                        | 12/09/2022 | 4422942 | 22782488.5 | German |
| 4422962 | Stellantis Auto SAS                                                                | 27/09/2022 | 4422962 | 22789964.8 | French |
| 4423576 | Manufacture d'Horlogerie Audemars Piguet SA                                        | 28/09/2022 | 4423576 | 22797338.5 | French |
| 4423968 | nChain Licensing AG                                                                | 26/09/2022 | 4423968 | 22785750.5 |        |
| 4424550 | LG Energy Solution, Ltd.                                                           | 08/11/2022 | 4424550 | 22901601.9 |        |
| 4424969 | Condoor Group B.V.                                                                 | 23/02/2024 | 4424969 | 24159399.5 |        |
| 4425347 | Samsung Electronics Co., Ltd.                                                      | 12/02/2024 | 4425347 | 24157063.9 |        |
| 4425646 | LG Energy Solution, Ltd.                                                           | 11/07/2023 | 4425646 | 23839942.2 |        |
| 4426529 | Siemens Gamesa Renewable Energy A/S                                                | 09/12/2022 | 4426529 | 22836046.7 |        |
| 4427286 | VOLVO TRUCK CORPORATION                                                            | 03/11/2021 | 4427286 | 21809935.6 |        |
| 4427701 | 3d Ortho Medikal 3d Modelleme Danismanlik Egitim Sanayi ve Ticaret Limited Sirketi | 09/11/2023 | 4427701 | 23208683.5 |        |
| 4428192 | AJINOMOTO CO., INC.                                                                | 05/03/2024 | 4428192 | 24161553.3 |        |
| 4428329 | Pauli + Sohn GmbH Metallwaren                                                      | 31/07/2023 | 4428329 | 23188585.6 | German |
| 4428358 | Rohr, Inc.                                                                         | 08/03/2024 | 4428358 | 24162372.7 |        |
| 4429009 | Jiangsu Zenergy Battery Technologies Group Co., Ltd.                               | 08/03/2024 | 4429009 | 24162469.1 |        |
| 4429394 | Panasonic Intellectual Property Corporation of America                             | 21/08/2017 | 4429394 | 24191329.2 |        |
| 4429688 | Creative Advanced Technology S.L.                                                  | 11/11/2022 | 4429688 | 22817614.5 |        |
| 4430037 | GENZYME CORPORATION                                                                | 09/11/2022 | 4430037 | 22817150.0 |        |
| 4430305 | Putzmeister Engineering GmbH                                                       | 07/11/2022 | 4430305 | 22813990.3 | German |
| 4430851 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.               | 07/11/2022 | 4430851 | 22813284.1 |        |
| 4431168 | Rudig, Egon                                                                        | 16/03/2023 | 4431168 | 23162303.4 |        |
| 4431248 | Seiko Epson Corporation                                                            | 01/03/2024 | 4431248 | 24161033.6 |        |
| 4431402 | Airbus Operations GmbH                                                             | 16/03/2023 | 4431402 | 23162261.4 |        |
| 4431748 | Daikin Industries, Ltd.                                                            | 18/12/2023 | 4431748 | 23878371.6 |        |
| 4431765 | KUBOTA CORPORATION                                                                 | 15/03/2023 | 4431765 | 23305353.7 |        |
| 4432067 | Samsung Electronics Co., Ltd.                                                      | 14/03/2024 | 4432067 | 24163544.0 |        |
| 4432934 | First15 Trading B.V.                                                               | 16/11/2022 | 4432934 | 22809225.0 |        |
| 4432936 | RapidPulse, Inc.                                                                   | 17/11/2022 | 4432936 | 22834811.6 |        |



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| 4433218 | Ecole Nationale Supérieure de Mécanique<br>et d'Aérotechnique<br>Université de Poitiers<br>COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN<br>Centre National de la Recherche<br>Scientifique | 10/11/2022 | 4433218 | 22814117.2 | French |
| 4433639 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                                                                                                                               | 10/11/2022 | 4433639 | 22817212.8 | French |
| 4434172 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                                                                          | 17/11/2021 | 4434172 | 21823735.2 |        |
| 4434214 | Microsoft Technology Licensing, LLC                                                                                                                                                             | 05/09/2022 | 4434214 | 22787034.2 |        |
| 4434276 | Cisco Technology, Inc.                                                                                                                                                                          | 17/11/2022 | 4434276 | 22826866.0 |        |
| 4434423 | LG Electronics Inc.                                                                                                                                                                             | 20/02/2019 | 4434423 | 24187689.5 |        |
| 4434426 | BISSELL Inc.                                                                                                                                                                                    | 19/03/2024 | 4434426 | 24164676.9 |        |
| 4434502 | Ontex BV<br>Ontex Group NV                                                                                                                                                                      | 24/03/2023 | 4434502 | 23164146.5 |        |
| 4434738 | Semi Corr Containers, Inc.                                                                                                                                                                      | 19/03/2024 | 4434738 | 24164470.7 |        |
| 4435227 | National Oilwell Varco, L.P.                                                                                                                                                                    | 21/07/2020 | 4435227 | 24192982.7 |        |
| 4435652 | GOOGLE LLC                                                                                                                                                                                      | 25/04/2023 | 4435652 | 24193540.2 |        |
| 4436230 | Xiaomi EV Technology Co., Ltd.                                                                                                                                                                  | 10/07/2023 | 4436230 | 23184513.2 |        |
| 4436443 | Premcore Holdings Ltd                                                                                                                                                                           | 25/11/2021 | 4436443 | 21820514.4 |        |
| 4436654 | Old Dominion University Research<br>Foundation                                                                                                                                                  | 23/09/2022 | 4436654 | 22925236.6 |        |
| 4436719 | Comptoir Nouveau de la Parfumerie                                                                                                                                                               | 23/11/2022 | 4436719 | 22826150.9 | French |
| 4437328 | Aryballe Technologies<br>Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                                                                                                      | 20/11/2022 | 4437328 | 22818755.5 | French |
| 4437711 | ZOE Life Technologies AG                                                                                                                                                                        | 27/11/2021 | 4437711 | 21823227.0 |        |
| 4437932 | SCHOTT AG                                                                                                                                                                                       | 20/11/2020 | 4437932 | 24187397.5 | German |
| 4438138 | Offset Ventures, LLC                                                                                                                                                                            | 28/03/2024 | 4438138 | 24167467.0 |        |
| 4438997 | Rheinmetall Landsysteme GmbH                                                                                                                                                                    | 11/03/2024 | 4438997 | 24162705.8 | German |
| 4439081 | MITSUBISHI ELECTRIC<br>CORPORATION                                                                                                                                                              | 26/11/2021 | 4439081 | 21965676.6 |        |
| 4439108 | AIRBUS OPERATIONS (SAS)                                                                                                                                                                         | 11/03/2024 | 4439108 | 24162551.6 | French |
| 4440386 | BSH Hausgeräte GmbH                                                                                                                                                                             | 10/11/2022 | 4440386 | 22817217.7 | German |
| 4440458 | Tau Medical Inc.<br>Institute For Research & Industry<br>Cooperation Pusan National University<br>Tau Medical Inc.                                                                              | 02/12/2022 | 4440458 | 22902269.4 |        |
| 4440812 | Acme Beverage S.p.a.                                                                                                                                                                            | 01/12/2022 | 4440812 | 22830143.8 |        |
| 4441279 | Teijin Carbon Europe GmbH                                                                                                                                                                       | 28/11/2022 | 4441279 | 22822506.6 |        |
| 4441296 | Caterpillar Work Tools B.V.                                                                                                                                                                     | 22/11/2022 | 4441296 | 22813896.2 |        |
| 4441300 | SIAMP CEDAP                                                                                                                                                                                     | 25/11/2022 | 4441300 | 22822399.6 | French |
| 4441307 | Bouaouaja, Kamal<br>Bouaouaja, Daniel Karim                                                                                                                                                     | 10/11/2022 | 4441307 | 22817191.4 | German |
| 4441485 | ATEX EXPLOSIONSSCHUTZ GMBH                                                                                                                                                                      | 11/11/2022 | 4441485 | 22812415.2 | German |
| 4441512 | Fraba B.V.                                                                                                                                                                                      | 03/12/2021 | 4441512 | 21836000.6 |        |
| 4441661 | Mitsubishi Electric Corporation                                                                                                                                                                 | 02/06/2023 | 4441661 | 23741800.9 |        |
| 4441882 | Siemens Gamesa Renewable Energy A/S                                                                                                                                                             | 27/12/2022 | 4441882 | 22839383.1 |        |
| 4442028 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                                                                          | 28/11/2022 | 4442028 | 22818924.7 |        |
| 4443434 | SAMSUNG ELECTRONICS CO., LTD.                                                                                                                                                                   | 26/03/2024 | 4443434 | 24166333.5 |        |
| 4443673 | Ricoh Company, Ltd.                                                                                                                                                                             | 20/02/2024 | 4443673 | 24158599.1 |        |
| 4443917 | Vivo Mobile Communication Co., Ltd.                                                                                                                                                             | 22/11/2022 | 4443917 | 22897803.7 |        |
| 4444541 | Kuraray Europe GmbH                                                                                                                                                                             | 06/12/2022 | 4444541 | 22830502.5 |        |
| 4444600 | Lohr Industrie                                                                                                                                                                                  | 06/12/2022 | 4444600 | 22830782.3 | French |
| 4444815 | Bostik SA                                                                                                                                                                                       | 05/12/2022 | 4444815 | 22830243.6 |        |
| 4444840 | Reckitt Benckiser Health Limited                                                                                                                                                                | 06/12/2022 | 4444840 | 22826390.1 |        |
| 4444946 | Trützschler Group SE                                                                                                                                                                            | 22/09/2022 | 4444946 | 22793716.6 | German |
| 4445493 | Universität Paderborn                                                                                                                                                                           | 09/12/2022 | 4445493 | 22834599.7 | German |
| 4445602 | ZOE Life Technologies AG                                                                                                                                                                        | 27/11/2021 | 4445602 | 21823228.8 |        |
| 4445815 | Suntek Industries (Hong Kong) Company<br>Limited                                                                                                                                                | 14/04/2023 | 4445815 | 23168064.6 |        |

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| 4445942 | Phagenesis Limited                                                                                                                                                                                  | 19/11/2021 | 4445942 | 24196798.3 |        |
| 4446023 | Fives DMS                                                                                                                                                                                           | 12/04/2024 | 4446023 | 24170050.9 | French |
| 4446103 | Sumitomo Rubber Industries, Ltd.                                                                                                                                                                    | 26/03/2024 | 4446103 | 24166543.9 |        |
| 4446519 | Mapei S.p.A.                                                                                                                                                                                        | 09/04/2024 | 4446519 | 24169260.7 |        |
| 4447614 | E.G.O. Elektro-Gerätebau GmbH                                                                                                                                                                       | 05/04/2024 | 4447614 | 24168652.6 | German |
| 4448223 | Atlas Copco Industrial Technique AB                                                                                                                                                                 | 09/11/2022 | 4448223 | 22814391.3 |        |
| 4448280 | Dow Global Technologies LLC                                                                                                                                                                         | 14/12/2022 | 4448280 | 22854322.9 |        |
| 4448423 | SOCIETE FINANCIERE DE GESTION                                                                                                                                                                       | 09/12/2022 | 4448423 | 22835330.6 | French |
| 4448438 | MANITOU BF                                                                                                                                                                                          | 02/12/2022 | 4448438 | 22834695.3 | French |
| 4448618 | Université de Bordeaux<br>Institut Polytechnique de Bordeaux<br>Centre National de la Recherche<br>Scientifique                                                                                     | 13/12/2022 | 4448618 | 22836124.2 | French |
| 4448969 | Motor Competence Center Holding<br>Flensburg GmbH                                                                                                                                                   | 15/12/2022 | 4448969 | 22836166.3 |        |
| 4449032 | magnoric                                                                                                                                                                                            | 08/12/2022 | 4449032 | 22834939.5 | French |
| 4449071 | Robert Bosch GmbH                                                                                                                                                                                   | 13/12/2022 | 4449071 | 22823125.4 | German |
| 4449356 | Surgar<br>Université Clermont Auvergne<br>Clermont Auvergne INP<br>Centre National de la Recherche<br>Scientifique                                                                                  | 14/12/2022 | 4449356 | 22835041.9 | French |
| 4449733 | Siemens Aktiengesellschaft                                                                                                                                                                          | 09/02/2023 | 4449733 | 23706998.4 | German |
| 4449862 | Deere & Company                                                                                                                                                                                     | 29/01/2024 | 4449862 | 24154500.3 | German |
| 4449994 | Siemens Healthineers AG                                                                                                                                                                             | 27/09/2023 | 4449994 | 23200069.5 | German |
| 4450235 | SICK AG                                                                                                                                                                                             | 17/04/2023 | 4450235 | 23168278.2 | German |
| 4450539 | Borealis GmbH                                                                                                                                                                                       | 21/04/2023 | 4450539 | 23169120.5 |        |
| 4450688 | Sanko Tekstil Isletmeleri San. Ve Tic. A.S.                                                                                                                                                         | 19/04/2024 | 4450688 | 24171268.6 |        |
| 4450689 | Sanko Tekstil Isletmeleri San. Ve Tic. A.S.                                                                                                                                                         | 19/04/2024 | 4450689 | 24171279.3 |        |
| 4450948 | Kalkhoff Werke GmbH                                                                                                                                                                                 | 18/04/2023 | 4450948 | 23168446.5 | German |
| 4450953 | Eclypia<br>Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                                                                                                                        | 20/04/2023 | 4450953 | 23315088.7 |        |
| 4451210 | FUJITSU LIMITED                                                                                                                                                                                     | 11/04/2024 | 4451210 | 24169652.5 |        |
| 4451573 | Samsung Electronics Co., Ltd.                                                                                                                                                                       | 02/12/2015 | 4451573 | 24198085.3 |        |
| 4451999 | Jemella Limited                                                                                                                                                                                     | 20/12/2022 | 4451999 | 22838937.5 |        |
| 4452103 | Orthofix S.r.l.<br>TEXAS SCOTTISH RITE HOSPITAL<br>FOR CHILDREN                                                                                                                                     | 23/12/2022 | 4452103 | 22844127.5 |        |
| 4452412 | BioVersys AG                                                                                                                                                                                        | 21/12/2022 | 4452412 | 22843301.7 |        |
| 4452656 | Rohm and Haas Company                                                                                                                                                                               | 06/12/2022 | 4452656 | 22847177.7 |        |
| 4452716 | Huawei Digital Power Technologies Co.,<br>Ltd.                                                                                                                                                      | 12/01/2022 | 4452716 | 22700762.2 |        |
| 4452817 | INVENTIO AG                                                                                                                                                                                         | 02/12/2022 | 4452817 | 22829747.9 | German |
| 4453324 | Grotti Srl                                                                                                                                                                                          | 14/12/2022 | 4453324 | 22826225.9 |        |
| 4453350 | DOKA GmbH                                                                                                                                                                                           | 22/12/2022 | 4453350 | 22854461.5 | German |
| 4453650 | École Nationale Supérieure de Techniques<br>Avancées<br>Commissariat à l'Energie Atomique et aux<br>Energies Alternatives<br>Centre National de la Recherche<br>Scientifique<br>Ecole Polytechnique | 16/12/2022 | 4453650 | 22835083.1 | French |
| 4453740 | Thales<br>SORBONNE UNIVERSITE<br>Centre National de la Recherche<br>Scientifique                                                                                                                    | 22/12/2022 | 4453740 | 22838864.1 | French |
| 4453943 | ILLUMINA, INC.                                                                                                                                                                                      | 30/09/2022 | 4453943 | 22794046.7 |        |
| 4454085 | Rittal GmbH & Co. KG                                                                                                                                                                                | 28/11/2022 | 4454085 | 22826805.8 | German |
| 4454567 | Siemens Healthineers AG                                                                                                                                                                             | 04/09/2023 | 4454567 | 23195100.5 |        |
| 4454964 | Robert Bosch GmbH                                                                                                                                                                                   | 12/12/2022 | 4454964 | 22836330.5 |        |
| 4455021 | AIRBUS OPERATIONS (S.A.S.)                                                                                                                                                                          | 15/04/2024 | 4455021 | 24170269.5 | French |

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|---------|-----------------------------------------------------------------------------|------------|---------|------------|--------|
| 4455540 | Gaztransport et Technigaz                                                   | 15/02/2024 | 4455540 | 24157979.6 | French |
| 4455543 | AIRBUS OPERATIONS (S.A.S.)<br>Centre Technique des Industries<br>Mécaniques | 15/04/2024 | 4455543 | 24170274.5 | French |
| 4456465 | QUALCOMM Incorporated                                                       | 23/06/2021 | 4456465 | 24200102.2 |        |
| 4456712 | Aphea.Bio NV                                                                | 29/12/2022 | 4456712 | 22847136.3 |        |
| 4457037 | Solystic                                                                    | 24/08/2022 | 4457037 | 22769179.7 | French |
| 4457038 | Solystic                                                                    | 29/09/2022 | 4457038 | 22798267.5 | French |
| 4457088 | Berndorf Band GmbH                                                          | 28/12/2022 | 4457088 | 22847112.4 | German |
| 4457098 | JOHN COCKERILL S.A.                                                         | 16/09/2022 | 4457098 | 22786016.0 | French |
| 4457170 | INVENTIO AG                                                                 | 12/12/2022 | 4457170 | 22835636.6 | German |
| 4458198 | ABUS August Bremicker Söhne KG                                              | 27/03/2024 | 4458198 | 24166985.2 | German |
| 4458599 | Jing-Jin Electric Technologies Co., Ltd.                                    | 23/03/2022 | 4458599 | 22932624.4 |        |
| 4459080 | Wenzhou JINFU Locks Co., Ltd.                                               | 24/04/2024 | 4459080 | 24172302.2 |        |
| 4459182 | Polytechnik Luft- und Feuerungstechnik<br>GmbH                              | 07/03/2024 | 4459182 | 24162015.2 | German |
| 4459388 | ETA SA Manufacture Horlogère Suisse                                         | 23/02/2024 | 4459388 | 24159334.2 | French |
| 4459785 | Panasonic Intellectual Property<br>Management Co., Ltd.                     | 23/12/2022 | 4459785 | 22915944.7 |        |
| 4460398 | Loesche GmbH                                                                | 04/01/2022 | 4460398 | 22700044.5 | German |
| 4460555 | Henkel AG & Co. KGaA                                                        | 08/12/2022 | 4460555 | 22835231.6 | German |
| 4461134 | Ixoguard B.V.                                                               | 24/04/2024 | 4461134 | 24172119.0 |        |
| 4461389 | Yu, Zheng                                                                   | 08/05/2024 | 4461389 | 24174940.7 |        |
| 4461567 | Nokian Renkaat Oyj                                                          | 08/05/2023 | 4461567 | 23172089.7 |        |
| 4461856 | Picanol                                                                     | 10/05/2023 | 4461856 | 23172525.0 |        |
| 4461987 | Driveman GmbH                                                               | 08/05/2023 | 4461987 | 23172132.5 | German |
| 4462892 | Nokia Technologies Oy                                                       | 08/05/2024 | 4462892 | 24174772.4 |        |
| 4464149 | Maschinenfabrik Bernard Krone GmbH &<br>Co. KG                              | 07/09/2023 | 4464149 | 24202939.5 | German |
| 4464152 | Agripool S.r.l.                                                             | 09/05/2024 | 4464152 | 24175017.3 |        |
| 4464501 | KHS GmbH                                                                    | 30/04/2024 | 4464501 | 24173376.5 | German |
| 4464623 | Sudhaus GmbH                                                                | 10/05/2024 | 4464623 | 24175118.9 | German |
| 4464806 | Otto Fuchs - Kommanditgesellschaft -                                        | 17/05/2023 | 4464806 | 23173883.2 | German |
| 4465958 | Sever Pharma Solutions                                                      | 20/01/2023 | 4465958 | 23701454.3 |        |
| 4465959 | Sever Pharma Solutions                                                      | 20/01/2023 | 4465959 | 23701456.8 |        |
| 4465973 | ORION CORPORATION                                                           | 19/01/2023 | 4465973 | 23703831.0 |        |
| 4466514 | Compagnie Industrielle des Lasers Cilas                                     | 20/01/2023 | 4466514 | 23701139.0 | French |
| 4466953 | ISTEQ B.V.<br>ISTEQ Group Holding B.V.                                      | 17/01/2023 | 4466953 | 23701275.2 |        |
| 4467576 | Kraton Polymers Nederland B.V.                                              | 24/05/2024 | 4467576 | 24177881.0 |        |
| 4467710 | Van de Velde, Joris                                                         | 12/04/2024 | 4467710 | 24170000.4 | German |
| 4467723 | BAUER Maschinen GmbH                                                        | 24/05/2023 | 4467723 | 23175045.6 | German |
| 4467766 | SNF Group                                                                   | 26/05/2023 | 4467766 | 23305838.7 |        |
| 4467822 | Axis AB                                                                     | 26/05/2023 | 4467822 | 23175787.3 |        |
| 4468337 | Hitachi Energy Ltd                                                          | 26/05/2023 | 4468337 | 23175649.5 |        |
| 4468397 | Nexeon Limited                                                              | 14/06/2017 | 4468397 | 24200609.6 |        |
| 4468910 | U-POWER GROUP S.P.A.                                                        | 18/01/2023 | 4468910 | 23700910.5 |        |
| 4469173 | FF Rollerskis AS                                                            | 26/01/2023 | 4469173 | 23702313.0 |        |
| 4469201 | Evonik Operations GmbH                                                      | 26/01/2023 | 4469201 | 23701780.1 |        |
| 4469463 | BioVersys AG                                                                | 27/01/2023 | 4469463 | 23701975.7 |        |
| 4469669 | Siemens Energy Global GmbH & Co. KG                                         | 20/01/2023 | 4469669 | 23706171.8 |        |
| 4469681 | Ateliers Busch S.A.                                                         | 24/01/2023 | 4469681 | 23702398.1 | French |
| 4469697 | STABILUS GmbH                                                               | 16/09/2022 | 4469697 | 22790473.7 |        |
| 4471527 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                          | 17/05/2024 | 4471527 | 24176664.1 |        |
| 4471940 | LG Energy Solution, Ltd.                                                    | 11/09/2023 | 4471940 | 23907294.5 |        |
| 4472174 | SAP SE                                                                      | 31/05/2024 | 4472174 | 24179292.8 |        |
| 4472296 | Deutsche Telekom AG                                                         | 30/05/2023 | 4472296 | 23176091.9 |        |
| 4472522 | Musicco, Francesca<br>Musicco, Nicola                                       | 14/03/2023 | 4472522 | 23714602.2 |        |
| 4472865 | EMUK GMBH & CO. KG                                                          | 09/01/2023 | 4472865 | 23701240.6 | German |
| 4473288 | BostonGene Corporation                                                      | 31/01/2023 | 4473288 | 23708082.5 |        |

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| 4473616 | ViaSat Inc.                                                          | 24/02/2023 | 4473616 | 23717678.9 |        |
| 4474587 | Anstar Oy                                                            | 27/05/2024 | 4474587 | 24178196.2 |        |
| 4474976 | STMicroelectronics International N.V.                                | 21/05/2024 | 4474976 | 24176930.6 |        |
| 4475124 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 04/03/2011 | 4475124 | 24209945.5 |        |
|         | Dolby International AB                                               |            |         |            |        |
| 4475691 | Philip Morris Products S.A.                                          | 07/02/2023 | 4475691 | 23703061.4 |        |
| 4475808 | The Braun Corporation                                                | 07/02/2023 | 4475808 | 23709886.8 |        |
| 4475983 | IoTco                                                                | 20/01/2023 | 4475983 | 23701145.7 |        |
| 4476045 | Institut National des Sciences Appliquées de Lyon (INSA Lyon)        | 01/02/2023 | 4476045 | 23702457.5 |        |
|         | TotalEnergies OneTech                                                |            |         |            |        |
|         | Centre National de la Recherche Scientifique (CNRS)                  |            |         |            |        |
|         | Université Claude Bernard Lyon 1 (UCBL)                              |            |         |            |        |
|         | Université Jean Monnet Saint-Étienne                                 |            |         |            |        |
| 4476128 | INNOVATED TRANSPORT SYSTEMS UG (HAFTUNGSBESCHRÄNKT)                  | 06/02/2023 | 4476128 | 23704285.8 | German |
| 4476336 | Becton, Dickinson and Company                                        | 07/02/2023 | 4476336 | 23710159.7 |        |
| 4476472 | Plastiflex Group                                                     | 07/02/2023 | 4476472 | 23703580.3 |        |
| 4476537 | Instrumentation Laboratory Company                                   | 08/02/2023 | 4476537 | 23714382.1 |        |
| 4476685 | Cathworks Ltd.                                                       | 09/02/2023 | 4476685 | 23706860.6 |        |
| 4477256 | Shenzhen Ulike Smart Electronics Co., Ltd.                           | 12/01/2024 | 4477256 | 24758129.1 |        |
| 4478533 | Teradar, Inc.                                                        | 21/06/2022 | 4478533 | 24210116.0 |        |
| 4478602 | WILO SE                                                              | 28/02/2024 | 4478602 | 24160385.1 | German |
| 4479706 | TomTom Navigation B.V.                                               | 07/02/2023 | 4479706 | 23704136.3 |        |
| 4480266 | QUALCOMM INCORPORATED                                                | 01/02/2023 | 4480266 | 23709500.5 |        |
| 4480576 | Borealis GmbH                                                        | 23/06/2023 | 4480576 | 23181204.1 |        |
| 4480723 | Carrier Corporation                                                  | 11/06/2024 | 4480723 | 24181523.2 |        |
| 4481200 | WILO SE                                                              | 19/06/2023 | 4481200 | 23305967.4 |        |
| 4481222 | Yamaha Hatsudoki Kabushiki Kaisha                                    | 21/06/2024 | 4481222 | 24183728.5 |        |
| 4481311 | Alfa Laval Corporate AB                                              | 22/06/2023 | 4481311 | 23180919.5 |        |
| 4481344 | Commissariat à l'Energie Atomique et aux Energies Alternatives       | 11/06/2024 | 4481344 | 24181544.8 | French |
|         | BHG                                                                  |            |         |            |        |
| 4482928 | Chevron Oronite Company LLC                                          | 21/02/2023 | 4482928 | 23708910.7 |        |
|         | Chevron Japan Ltd.                                                   |            |         |            |        |
| 4483043 | SAFRAN AIRCRAFT ENGINES                                              | 21/02/2023 | 4483043 | 23707784.7 | French |
| 4484063 | TKR Spezialwerkzeuge GmbH                                            | 28/05/2024 | 4484063 | 24178556.7 | German |
| 4484100 | MAX CO., LTD.                                                        | 27/06/2024 | 4484100 | 24185065.0 |        |
| 4484640 | Decontex Holding                                                     | 27/06/2023 | 4484640 | 23181765.1 |        |
| 4484662 | IBAK Helmut Hunger GmbH & Co. KG                                     | 04/06/2024 | 4484662 | 24179831.3 | German |
| 4484832 | IMI Hydronic Engineering International SA                            | 27/06/2023 | 4484832 | 23181717.2 |        |
| 4484876 | Top Rank Technology Limited                                          | 23/05/2024 | 4484876 | 24177778.8 |        |
| 4485603 | LG Energy Solution, Ltd.                                             | 30/03/2023 | 4485603 | 23781392.8 |        |
| 4486164 | Fidlock GmbH                                                         | 29/02/2024 | 4486164 | 24708448.6 | German |
| 4486271 | Cinogy GmbH                                                          | 03/03/2023 | 4486271 | 23709390.1 | German |
| 4486466 | Gschmeidler, Gottfried                                               | 10/02/2023 | 4486466 | 23705935.7 | German |
| 4486574 | Trodat GmbH                                                          | 06/04/2023 | 4486574 | 23719260.4 | German |
| 4486575 | SICPA HOLDING SA                                                     | 22/02/2023 | 4486575 | 23706026.4 |        |
| 4487600 | QUALCOMM INCORPORATED                                                | 11/01/2023 | 4487600 | 23704656.0 |        |
| 4489661 | Bard Access Systems, Inc.                                            | 15/03/2023 | 4489661 | 23715661.7 |        |
| 4490449 | Propellane                                                           | 10/03/2023 | 4490449 | 23710891.5 | French |
| 4491842 | HAPA AG                                                              | 13/06/2024 | 4491842 | 24182079.4 | German |
| 4493941 | FLUKE CORPORATION                                                    | 16/03/2022 | 4493941 | 22713854.2 |        |
| 4494332 | Telefonaktiebolaget LM Ericsson (publ)                               | 06/03/2023 | 4494332 | 23711201.6 |        |
| 4494810 | lifiot UG (haftungsbeschränkt)                                       | 21/07/2023 | 4494810 | 23186898.5 |        |
| 4494957 | TOYOTA JIDOSHA KABUSHIKI KAISHA                                      | 21/07/2023 | 4494957 | 23187087.4 |        |
|         | KAISHA                                                               |            |         |            |        |
| 4495080 | T & T Bros. GmbH                                                     | 20/07/2023 | 4495080 | 23186648.4 |        |
| 4495437 | The Boeing Company                                                   | 28/05/2024 | 4495437 | 24178624.3 |        |
| 4496139 | Aptiv Technologies AG                                                | 09/07/2024 | 4496139 | 24187357.9 |        |

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| 4497344 | Acushnet Company                                                     | 13/06/2024 | 4497344 | 24182125.5 |        |
| 4497595 | manroland sheetfed GmbH                                              | 15/07/2024 | 4497595 | 24188698.5 | German |
| 4497649 | ALSTOM Holdings                                                      | 25/07/2023 | 4497649 | 23306281.9 |        |
| 4497873 | BAUER Maschinen GmbH                                                 | 27/07/2023 | 4497873 | 23188184.8 | German |
| 4498077 | Uniwersytet Lodzki                                                   | 12/07/2024 | 4498077 | 24188463.4 |        |
| 4499605 | INVISTA Textiles (U.K.) Limited                                      | 28/07/2023 | 4499605 | 23754840.9 |        |
| 4499747 | Wacker Chemie AG                                                     | 28/03/2022 | 4499747 | 22718908.1 | German |
| 4501464 | National University Corporation Tokyo                                | 29/03/2023 | 4501464 | 23780783.9 |        |
|         | University Of Agriculture and Technology                             |            |         |            |        |
| 4503026 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 20/01/2009 | 4503026 | 24211471.8 |        |
| 4503486 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                 | 29/04/2022 | 4503486 | 22939267.5 |        |
| 4503970 | Philip Morris Products S.A.                                          | 30/03/2023 | 4503970 | 23715528.8 |        |
| 4504558 | Magna Seating Inc.                                                   | 30/05/2023 | 4504558 | 23739704.7 |        |
| 4504669 | AGC Glass Europe                                                     | 19/06/2023 | 4504669 | 23732633.5 |        |
| 4504821 | Wacker Chemie AG                                                     | 06/04/2022 | 4504821 | 22721304.8 | German |
| 4505920 | Guangdong Master Group Co., Ltd.                                     | 03/11/2023 | 4505920 | 23207607.5 |        |
| 4506155 | Carl Freudenberg KG                                                  | 07/08/2023 | 4506155 | 23189966.7 |        |
| 4506419 | QuinLyte Holding B.V.                                                | 01/08/2024 | 4506419 | 24192268.1 |        |
| 4509682 | Salto Systems, S.L.                                                  | 11/04/2023 | 4509682 | 23719426.1 |        |
| 4510880 | Valeur Declaree                                                      | 04/05/2023 | 4510880 | 23722419.1 | French |
| 4510991 | The Compounding Company B.V.                                         | 14/04/2023 | 4510991 | 23718366.0 |        |
| 4511274 | Iveco Defence Vehicles S.p.A.                                        | 19/04/2023 | 4511274 | 23722075.1 |        |
| 4512435 | Sirona Dental Systems GmbH                                           | 21/08/2023 | 4512435 | 23192445.7 |        |
|         | DENTSPLY SIRONA Inc.                                                 |            |         |            |        |
| 4513155 | Hamamatsu Photonics K.K.                                             | 20/12/2019 | 4513155 | 25150742.2 |        |
| 4514554 | SMS Group GmbH                                                       | 19/04/2023 | 4514554 | 23721307.9 | German |
| 4515072 | Saudi Arabian Oil Company                                            | 21/06/2023 | 4515072 | 23742520.2 |        |
| 4516449 | Vernal Manufacturing & Engineering Co., Ltd.                         | 30/08/2023 | 4516449 | 23194357.2 |        |
| 4516715 | Cedes AG                                                             | 01/09/2023 | 4516715 | 23194839.9 | German |
| 4517287 | Melexis Technologies NV                                              | 01/09/2023 | 4517287 | 23194803.5 |        |
| 4517808 | Absolics Inc.                                                        | 25/07/2024 | 4517808 | 24190772.4 |        |
| 4518752 | FONDATION FORTE                                                      | 05/05/2023 | 4518752 | 23725364.6 |        |
| 4520403 | Shenzhen Yile Dynamic Technology Co., LTD                            | 12/10/2023 | 4520403 | 23203114.6 |        |
| 4521745 | Sun Patent Trust                                                     | 19/09/2013 | 4521745 | 25152880.8 |        |
| 4523332 | Diodes Incorporated                                                  | 29/09/2023 | 4523332 | 23798555.1 |        |
| 4523629 | Siemens Healthineers AG                                              | 18/09/2023 | 4523629 | 23197942.8 | German |
| 4523849 | Chen, Chung Li                                                       | 10/04/2024 | 4523849 | 24169397.7 |        |
| 4524400 | ebm-papst Mulfingen GmbH & Co. KG                                    | 05/09/2024 | 4524400 | 24198654.6 | German |
| 4524407 | AIRBUS HELICOPTERS                                                   | 14/09/2023 | 4524407 | 23197431.2 |        |
|         | DEUTSCHLAND GmbH                                                     |            |         |            |        |
| 4527301 | Siemens Healthineers AG                                              | 22/09/2023 | 4527301 | 23199115.9 | German |
| 4527702 | HELLA GMBH & CO. KGAA                                                | 09/08/2024 | 4527702 | 24193817.4 | German |
| 4528141 | Akrapovic d.d.                                                       | 21/09/2023 | 4528141 | 23198907.0 |        |
| 4528382 | FUJIFILM Business Innovation Corp.                                   | 26/02/2024 | 4528382 | 24159593.3 |        |
| 4528761 | Baiqida Intelligent Technology (Ningbo) Co., Ltd.                    | 22/11/2023 | 4528761 | 23211597.2 |        |
| 4530478 | Hunan Sinoboom Intelligent Equipment Co., Ltd.                       | 25/09/2023 | 4530478 | 23828658.7 |        |
| 4530651 | Bruker France S.A.S.                                                 | 26/09/2023 | 4530651 | 23315367.5 |        |
| 4531264 | Vilniaus Gedimino technikos universitetas                            | 07/11/2023 | 4531264 | 23208367.5 |        |
|         | Vytauto Didziojo Universitetas                                       |            |         |            |        |
| 4532498 | Univerzita Palackého v Olomouci                                      | 29/05/2023 | 4532498 | 23735588.8 |        |
|         | Fyziologicky ustav AV CR, v.v.i.                                     |            |         |            |        |
| 4532886 | Pipe-proteq Holding B.V.                                             | 25/05/2022 | 4532886 | 22736015.3 |        |
| 4533318 | British Telecommunications Public Limited Company                    | 10/05/2023 | 4533318 | 23724843.0 |        |
| 4534119 | DEKA Products Limited Partnership                                    | 19/03/2020 | 4534119 | 25152372.6 |        |

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|---------|--------------------------------------------|------------|---------|------------|--------|
| 4534905 | Martin GmbH für Umwelt- und Energietechnik | 11/09/2024 | 4534905 | 24199701.4 | German |
| 4535926 | Gestart S.r.l.                             | 11/07/2024 | 4535926 | 24187902.2 |        |
| 4538800 | FUJIFILM Business Innovation Corp.         | 15/05/2024 | 4538800 | 24176098.2 |        |
| 4540646 | University Of Southampton                  | 05/06/2023 | 4540646 | 23730817.6 |        |
| 4545251 | Nanjing Chervon Industry Co., Ltd.         | 05/09/2024 | 4545251 | 24198532.4 |        |
| 4546147 | Samsung Electronics Co., Ltd.              | 03/09/2024 | 4546147 | 24198120.8 |        |
| 4549804 | Energyn Inc.                               | 06/12/2023 | 4549804 | 23275171.9 |        |
| 4550324 | Dolby International AB                     | 19/03/2018 | 4550324 | 25156641.0 |        |
| 4558693 | Häfele SE & Co KG                          | 08/01/2024 | 4558693 | 24700229.8 | German |
| 4559615 | Lee, Kye-seol                              | 03/01/2024 | 4559615 | 24150154.3 |        |
| 4560252 | Wingun Technology Co., Ltd.                | 24/11/2023 | 4560252 | 23211987.5 |        |
| 4560439 | HTC Corporation                            | 24/04/2024 | 4560439 | 24172245.3 |        |
| 4560849 | WEZAG GmbH & Co. KG                        | 23/11/2023 | 4560849 | 23211835.6 | German |
| 4565852 | Sartorius Lab Instruments GmbH & Co. KG    | 21/07/2023 | 4565852 | 23750553.2 | German |
| 4566443 | Grojer, Friedrich<br>Pirolt, Stefan        | 09/09/2024 | 4566443 | 24199169.4 | German |
| 4575990 | Axis AB                                    | 19/12/2023 | 4575990 | 23218043.0 |        |
| 4577780 | Schulte, Hubert                            | 07/08/2024 | 4577780 | 24755206.0 | German |
| 4578219 | Telefonaktiebolaget LM Ericsson (publ)     | 22/08/2023 | 4578219 | 23761628.9 |        |
| 4578907 | Nanjing Tech University                    | 08/08/2024 | 4578907 | 24193670.7 |        |
| 4581206 | Voith Patent GmbH                          | 28/07/2023 | 4581206 | 23750609.2 | German |
| 4581567 | Koninklijke Philips N.V.                   | 23/08/2023 | 4581567 | 23755442.3 |        |
| 4590484 | battenfeld-cincinnati Germany GmbH         | 05/08/2024 | 4590484 | 24754260.8 | German |
| 4591286 | Yara International ASA                     | 18/09/2023 | 4591286 | 23772852.2 |        |
| 4595414 | MONKEYWAY GmbH                             | 29/09/2023 | 4595414 | 23829100.9 |        |
| 4595804 | NerTes GmbH Mobile Ständertechnik          | 01/02/2024 | 4595804 | 24155285.0 | German |
| 4611640 | Koninklijke Philips N.V.                   | 20/08/2024 | 4611640 | 24758773.6 |        |
| 4619043 | Perspective Therapeutics, Inc.             | 01/05/2024 | 4619043 | 24729457.2 |        |
| 4620265 | SMS group S.p.A.                           | 23/02/2024 | 4620265 | 24708691.1 |        |

### Withdrawn – Section 33(1)

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| S20240657 | Aerator. CURTIN, PATRICK                                           |
| S20250355 | Optical fluid identification system, device and methods. LUKE SHEE |

### Refused - Section 31(1)

|           |                                                                                                                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S20230043 | Int. Cl. (2025.01) <b>A61B 17/00</b> . PRESSURIZED KIRSCHNER WIRE. CHILDREN'S HOSPITAL OF SOOCHOW UNIVERSITY                                                                                           |
| S20230081 | Int. Cl. (2025.01) <b>C01G 15/00</b> . Method for Preparing Thallium Salt by Selectively Recovering Thallium from Thallium-containing Sludge. SOUTH CHINA UNIVERSITY OF TECHNOLOGY                     |
| S20230082 | Int. Cl. (2025.01) <b>C02F 11/00</b> . METHOD FOR STABILIZING THALLIUM-CONTAINING SLUDGE. SOUTH CHINA UNIVERSITY OF TECHNOLOGY                                                                         |
| S20230084 | Int. Cl. (2025.01) <b>A01G 9/00; A01C 1/00</b> . SEEDLING RAISING METHOD FOR COTTON SEEDLINGS. YANGTZE UNIVERSITY                                                                                      |
| S20230085 | Int. Cl. (2025.01) <b>G01N 23/00; G01N 33/00; G01V 9/00</b> . NEW METHOD FOR LOCATING CONCEALED ORE BODIES BASED ON STABLE ISOTOPE CHARACTERISTICS OF METALS. CHINA UNIVERSITY OF GEOSCIENCES, BEIJING |
| S20230097 | Int. Cl. (2025.01) <b>A23B 4/00; A23L 5/00</b> . Composite Color-protecting Antioxidant Coating Liquid for Meat Products, Preparation Method and Application. SHANGHAI INSTITUTE OF TECHNOLOGY         |

- S20230161 Int. Cl. (2025.01) **A01C 21/00; C05G 3/00**. CHEMICAL CONTROL TOPPING HIGH-YIELD COMPOSITION SUITABLE FOR THE LATER GROWTH STAGE OF SESAME AND APPLICATION THEREOF. INSTITUTE OF SOIL, FERTILIZER, RESOURCE AND ENVIRONMENT, JIANGXI ACADEMY OF AGRICULTURAL SCIENCES
- S20230179 Int. Cl. (2025.01) **C02F 11/00; C02F 3/00**. METHOD FOR TREATING PIG WASTEWATER. HENAN ACADEMY OF GEOLOGY; HENAN TECHNOLOGY CENTER OF ECOLOGICAL ENVIRONMENT; INSTITUTE OF SUBTROPICAL AGRICULTURE, CHINESE ACADEMY OF SCIENCES
- S20230492 Int. Cl. (2025.01) **G01F 25/00**. FLOW COEFFICIENT CORRECTION METHOD FOR PARALLEL FLOW METER GROUP. NORTHWESTERN POLYTECHNICAL UNIVERSITY; RESEARCH & DEVELOPMENT INSTITUTE OF NORTHWESTERN POLYTECHNICAL UNIVERSITY IN SHENZHEN
- S20240002 Int. Cl. (2025.01) **G01N 27/00**. An electrochemical oxygen pump designed to regulate the oxygen concentration in liquid lead-bismuth alloys. NORTH CHINA ELECTRIC POWER UNIVERSITY
- S20240005 Int. Cl. (2025.01) **A61K 31/00; A61K 35/00; A61K 9/00; A61P 29/00; A61P 35/00**. The preparation of a cholesterol-free liposome loading with Venenum Bufonis extract and its application. SHANGHAI UNIVERSITY OF TRADITIONAL CHINESE MEDICINE
- S20240006 Int. Cl. (2025.01) **E21B 12/00; E21B 17/00; E21B 25/00**. A device for rapid removal of the scale and mud of the drill pipe for drilling with a diamond rope coring. YUNNAN GEOLOGICAL ENGINEERING SECOND SURVEY INSTITUTE CO. LTD
- S20240008 Int. Cl. (2025.01) **A61H 39/00**. A bio-inspired intelligent traditional Chinese medicine acupoint moxibustion and massage robot. SHENZHEN SECOND PEOPLE'S HOSPITAL
- S20240009 Int. Cl. (2025.01) **A61B 34/00**. A minimally invasive surgical robot equipped with a pre-bent tube. SHENZHEN SECOND PEOPLE'S HOSPITAL
- S20240023 Int. Cl. (2025.01) **C25B 1/00; C25B 11/00; C25B 15/00; C25B 9/00**. A serpentine microchannel electrolytic device suitable for multiphase flow and a method for hydrogen production utilizing this electrolytic device. TAIYUAN UNIVERSITY OF SCIENCE AND TECHNOLOGY; TAIYUAN UNIVERSITY OF TECHNOLOGY
- S20240025 Int. Cl. (2025.01) **A23K 10/00; A23K 20/00; A23K 50/00**. A food-medicine homologous fungi fermented traditional Chinese medicine feed additive and its preparation method. BRANCH OF ANIMAL HUSBANDRY AND VETERINARY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES
- S20240041 Int. Cl. (2025.01) **C05F 17/00; C05G 1/00; C05G 5/00; C12N 1/00**. A composite microbial agent for treating waste vegetable leaves and its application. XIANYANG RUNYUAN BIOTECHNOLOGY CO., LTD; XINGYOU WU; CHUNFENG WU
- S20240051 Int. Cl. (2025.01) **A63B 21/00; A63B 23/00; A63B 24/00; A63B 71/00; F21V 33/00; G10C 3/00**. A stroke hand function rehabilitation piano keyboard trainer. ZHEJIANG CHINESE MEDICAL UNIVERSITY
- S20240054 Int. Cl. (2025.01) **A61K 39/00; A61P 31/00; C07K 19/00; C12N 15/00**. A multi-epitope antigen, vaccine, preparation method, and application for piglet diarrhea. YANGZHOU UNIVERSITY
- S20240130 Int. Cl. (2025.01) **C09K 11/00; G01N 21/00**. FUNCTIONALLY-MODIFIED FLUORESCENT CARBON DOT AND PREPARATION METHOD AND APPLICATION THEREOF. ZHEJIANG UNIVERSITY

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|           |                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S20240180 | Int. Cl. (2025.01) <b>A61L 27/00</b> . COMPLEX FOR PROMOTING REGENERATION OF MESODERM-DERIVED CELL TISSUES, PREPARATION METHOD AND APPLICATION. SHANGHAI LANWEISAIER BIOTECHNOLOGY CO., LTD                                                                                                                                                                |
| S20240204 | Int. Cl. (2025.01) <b>A61K 31/00; A61K 36/00; A61P 35/00</b> . APPLICATION OF GINSENOSEIDE RG5 IN ANTI-MELANOMA. GUANGDONG PHARMACEUTICAL UNIVERSITY                                                                                                                                                                                                       |
| S20240434 | Int. Cl. (2025.01) <b>G06F 17/00</b> . FLUID CHANNEL MODELING METHOD FOR SILT ABRASION DEVICE OF HYDRAULIC MACHINERY. XIHUA UNIVERSITY                                                                                                                                                                                                                     |
| S20240452 | Int. Cl. (2025.01) <b>A01B 43/00</b> . RESIDUAL FILM REMOVING AND ROLLING DEVICE AND SPRING-TINE CHAIN HARROW TYPE MULCH FILM RECYCLING MACHINE. INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES; BAYANNUR INSTITUTE OF AGRICULTURE AND ANIMAL HUSBANDRY; ORDOS AGRICULTURE AND ANIMAL HUSBANDRY ECOLOGY AND RESOURCE PROTECTION CENTER |
| S20240456 | Int. Cl. (2025.01) <b>G01J 3/00</b> . A micro-spectrometer optical system based on a freeform prism. ZHEJIANG TONGYUE OPTICAL TECHNOLOGY CO., LTD                                                                                                                                                                                                          |
| S20240467 | Int. Cl. (2025.01) <b>B29B 13/00; B29B 7/00; F26B 1/00</b> . A RUBBER RECEIVING TROLLEY OF AN AUTOMATIC RUBBER UNLOADING MACHINE FOR A NATURAL RUBBER DRYING PRODUCTION LINE. HAINAN UNIVERSITY; YUNNAN NATURAL RUBBER INDUSTRY GROUP XISHUANGBANNA JINGYANG CO., LTD                                                                                      |
| S20240496 | Int. Cl. (2025.01) <b>F21V 5/00</b> . A TIR collimating lens for multi-color LED light mixing. ZHEJIANG TONGYUE OPTICAL TECHNOLOGY CO., LTD                                                                                                                                                                                                                |
| S20240510 | Int. Cl. (2025.01) <b>G02B 7/00</b> . A high-precision three-screw-rod linkage secondary mirror focusing mechanism. ZHEJIANG TONGYUE OPTICAL TECHNOLOGY CO., LTD                                                                                                                                                                                           |
| S20240511 | Int. Cl. (2025.01) <b>G01N 21/00</b> . A device and method for improving the resolution and performance of terahertz ATR imaging. TIANJIN UNIVERSITY                                                                                                                                                                                                       |

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### Deemed to have been Withdrawn - Section 23(9)

|           |                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------|
| S20240588 | A converter for converting oscillating rotational motion to unidirectional rotational motion.<br>PATRICK WALSH; PATRICK JOSEPH KELLY |
| S20240601 | A corrugated pipe and a method for strengthening a spigot of a corrugated pipe.<br>J.F.C. MANUFACTURING CO. LIMITED                  |
| S20240633 | A Merchandising System.<br>HAMILTON, CARLY ELIZABETH                                                                                 |

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## Applications Lapsed Through Non-Payment of Renewal Fees

### Section (35) 1

|                  |                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>20170012</b>  | Int. Cl. (2025.01) <b>A61B 17/00; A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                        |
| <b>20170012</b>  | Int. Cl. (2025.01) <b>A61B 17/00; A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                        |
| <b>20170015</b>  | Int. Cl. (2025.01) <b>A61B 17/00; A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                        |
| <b>20170015</b>  | Int. Cl. (2025.01) <b>A61B 17/00; A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                        |
| <b>20210190</b>  | Int. Cl. (2025.01) <b>A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                                    |
| <b>20210190</b>  | Int. Cl. (2025.01) <b>A61B 18/00</b> . Electrosurgical device. GYRUS ACMI, INC                                                                    |
| <b>20230008</b>  | Int. Cl. (2025.01) <b>E04B 1/00; E04B 2/00; B32B 13/00; A62C 2/00</b> . Fire Resistant Separating Wall Assembly. GERARD MCCARTHY; PETER MCCAUGHEY |
| <b>20230008</b>  | Int. Cl. (2025.01) <b>E04B 1/00; E04B 2/00; B32B 13/00; A62C 2/00</b> . Fire Resistant Separating Wall Assembly. GERARD MCCARTHY; PETER MCCAUGHEY |
| <b>S20230011</b> | A bottle for drinking water and other liquids as storage in the form of a 4-leaf clover. NIKOLAS MARGARIDI                                        |

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## Patents Lapsed Through Non-Payment of Renewal Fees

*Please note that due to the high volume of lapsed patents (mostly European Patents designating the State which are not subsequently validated), details of these patents are no longer included in the printed version of the Journal. Instead, they are available to view on the online version of the journal at <https://www.ipoi.gov.ie/en/ip-search-tools/search-the-journal/>*

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## Request for Grant of Supplementary Protection Certificate

The name and address of the requestor follow the number allocated to the request. The date in brackets following the name and address is the date of receipt of the request. The Patent number is that under which the product in respect of which a certificate is sought is, allegedly, protected. Market Authorisation references in respect of the product concerned are also shown.

|                |                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2025038</b> | CHUGAI SEIYAKU KABUSHIKI KAISHA, 5-1, Ukima 5-chome<br>Kita-ku, 115-8543 Tokyo, Japan<br>(24 October 2025)<br>Patent No: 3284480; PHARMACEUTICAL COMPOSITION FOR<br>PREVENTION AND/OR TREATMENT OF ATOPIC DERMATITIS<br>CONTAINING IL-31 ANTAGONIST AS ACTIVE INGREDIENT<br>Product: Nemolizumab<br>Market Authorisation: Ireland EU/1/24/1901, 13/02/2025<br>European Union EU/1/24/1901, 13/02/2025 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Proceedings under Section 37 of the Patents Act, 1992

Restoration Order dated 13 October 2025 was made restoring the Patent mentioned below

**3958461** CubicPV Inc.

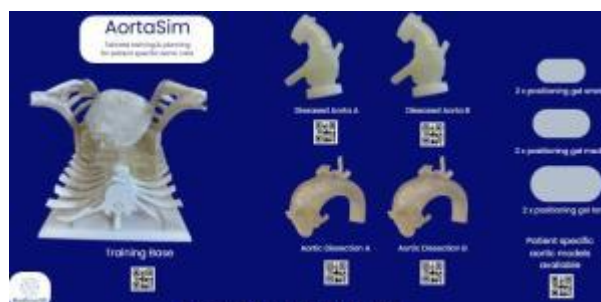
SYSTEM FOR TESTING PHOTSENSITIVE DEVICE DEGRADATION

## Designs Registered Under The Industrial Designs Act, 2001

**23681** 24.02 Jacqui O Connor, 9A Platform 94, Mervue business park, Galway H91 F773, Ireland.  
Address for service is c/o Jacqui O Connor  
9A Platform 94, Mervue business park, Galway H91 F773, Ireland.

Date of Registration: 20 May 2025.

AortaSim - Tailored Training for Patient Specific Aortic Care. A bespoke simulation and training package with patient specific anatomy. The scope of the system can be tailored to the need of the surgeon.



## Designs Registered Under The Industrial Designs Act 2001, which have expired due to non-renewal

| Design number | Class             |
|---------------|-------------------|
| 21898         | 06-01             |
| 23023         | 30.04,30.01,30.08 |
| 23026         | 25.03             |

**Iris um Oifig Maoine Intleachtúla na hÉireann**  
**Journal of the Intellectual Property Office of Ireland**  
**Cuid II**  
**Trádmharcanna**

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**No. 2555****Wednesday, 19 November, 2025**

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**NOTE:** The office does not guarantee the accuracy of its publications nor undertake any responsibility for errors or omissions or their consequences.

*In this Part of the Journal, unless the context otherwise requires, a reference to the 1963 Act means the Trade Marks Act, 1963, a reference to the 1963 Rules means the Trade Marks Rules, 1963, a reference to the 1996 Act means the Trade Marks Act, 1996 and a reference to the 1996 Rules means the Trade Marks Rules, 1996.*

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## Application for Registration of marks published under Section 43(1) of the 1996 Act following acceptance

Notice is hereby given that Applications for the Registration of the undermentioned trade marks have been accepted.

Any person who desires to oppose the registration of these trade marks may within three months from the date of this Journal give notice to the Controller, in accordance with the provisions of Rule 18.

It should be noted that under the provisions of Rule 63(2) no extension of the opposition period is allowed for lodging opposition under Rule 18.

It is desirable before lodging formal opposition that a communication should be addressed to the Applicant affording him an opportunity to withdraw his application for registration. In this way cost of opposition proceedings may be avoided.

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### HedgeHog Financial Wellness

**273327**    10 July 2025

- Class 9.    Education software; Educational software; Educational mobile applications; Educational computer applications; Educational tablet applications; Educational computer software; Children's educational software; Computer software concerned with children's education.
- Class 41.    Education; Education services; Further education; Health education; Educational services; Educational seminars; Online education services; University education services; Team building (education); Higher education services; Career counseling [education]; Education and instruction; Adult education services; Business educational services; Provision of education courses; Secondary school educational services;

Development of educational materials; Workshops for educational purposes; Education services relating to nutrition; Education services relating to banking; Leasing of educational material; Education services relating to commerce; Educational services relating to business; Educational courses relating to finance; Adult education services relating to accounting; Primary education services relating to literacy; Adult education services relating to finance; Adult education services relating to banking; Education services relating to business training; Conducting of educational courses in business; Educational services relating to physical fitness; Provision of educational services relating to diet; Arranging and conducting of lectures for educational purposes.

HedgeHog Financial Wellness Ltd, 30 Belgrove Lawn, Dublin D20YF99, Ireland. Address for service is c/o HedgeHog Financial Wellness Ltd, 30 Belgrove Lawn, Dublin D20YF99, Ireland.

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Application is for a Series of 3 Trade Marks.

**273328** 15 July 2025

- Class 35. Business administration; Administration relating to marketing; Business management and administration; Administration of patient reimbursement programs; Administrative services for medical referrals; Administrative services relating to the referral of patients.
- Class 44. Health care; Medical care; Nursing care; Medical care services; Nursing care services; Home-visit nursing care; Health care consultancy services [medical]; Consultancy services relating to health care; Respite care services in the nature of home nursing aid; Home nursing aid services; Home health care services.

Bartra Homecare Limited, Third Floor Longphort House, Earlsfort Centre, Dublin 2 D02WK40, Ireland. Address for service is c/o Bartra Homecare Limited, c/o Kate Twomey, Third Floor Longphort

House, Earlsfort Centre, Dublin 2 D02WK40, Ireland.



**273329** 09 May 2025

- Class 25. Clothing; Jackets [clothing]; Hoods [clothing]; Work clothes; Clothing for men, women and children; Men's clothing.

ZM TREND LIMITED, 4 Hillcrest, Claremorris, Co. Mayo F12 K5w5, Ireland. Address for service is c/o ZM TREND LIMITED, C/o Zeeshan Mujahid, 4 Hillcrest, Claremorris, Co. Mayo F12 K5w5, Ireland.

The mark in use is/will be in the colour(s) Black and White.



**273330** 14 July 2025

Class 36. Financial services; Financial investment services; Financial advisory services; Financial consulting services; Financial consultancy services.

FTI Finance Limited, International House, 3 Harbourmaster Place, IFSC, Dublin D01 K8F1, Ireland. Address for service is c/o FTI Finance Limited, International House, 3 Harbourmaster Place, IFSC, Dublin D01 K8F1, Ireland.

The mark in use is/will be in the colour(s) Green, white, red

## Chilli

273331 15 July 2025

Class 9. Mobile apps.

Tham Nguyen, 10 Temple View Way, Dublin 13 D13 N7F9, Ireland. Address for service is c/o Tham Nguyen, 10 Temple View Way, Dublin 13 D13 N7F9, Ireland.

The mark in use is/will be in the colour(s) Black



273332 17 June 2025

Class 29. Prepared meals and snack foods consisting primarily of potatoes and potato based products, preserved, dried and cooked fruits and vegetables, meat, fish, poultry and game, cheese and cheese mixtures; preserved, dried and cooked fruits and vegetables; processed potatoes and potato based snacks; French fries, chips and crisps; frozen and chilled foodstuffs all being fruits and/or vegetables.

Priority Date Claimed: 07 March 2025 United Kingdom

McCain Foods (GB) Limited, Havers Hill, Scarborough, North Yorkshire YO11 3BS, United Kingdom. Address for service is c/o Fiona Gorman, C/O F. F. Gorman & Co, 15 Clanwilliam Square, Dublin 2, Ireland.

The application for registration is proceeding with the consent of the proprietors of Registered European Union Trade Mark No's 000070813 and 018176419.



273333 17 June 2025

Class 29. Prepared meals and snack foods consisting primarily of potatoes and potato based products, preserved, dried and cooked fruits and vegetables, meat, fish, poultry and game, cheese and cheese mixtures; preserved, dried and cooked fruits and vegetables; processed potatoes and potato based snacks; French fries, chips and crisps; frozen and chilled foodstuffs all being fruits and/or vegetables.

Priority Date Claimed: 07 March 2025 United Kingdom

McCain Foods (GB) Limited, Havers Hill, Scarborough, North Yorkshire YO11 3BS, United Kingdom. Address for service is c/o Fiona Gorman, C/O F. F. Gorman & Co, 15 Clanwilliam Square, Dublin 2, Ireland.

The application for registration is proceeding with the consent of the proprietors of Registered European Union Trade Mark No's 000070813 and 018176419.



273334 17 June 2025

Class 29. Prepared meals and snack foods consisting primarily of potatoes and potato based products, preserved, dried and cooked fruits and vegetables, meat, fish, poultry and game, cheese and cheese mixtures; preserved, dried and cooked fruits and vegetables; processed potatoes and potato based snacks; French fries, chips and crisps; frozen and chilled foodstuffs all being fruits and/or vegetables.

Priority Date Claimed: 07 March 2025 United Kingdom

McCain Foods (GB) Limited, Havers Hill, Scarborough, North Yorkshire YO11 3BS, United Kingdom. Address for service is c/o Fiona Gorman, C/O F. F. Gorman & Co, 15 Clanwilliam Square, Dublin 2, Ireland.

The application for registration is proceeding with the consent of the proprietors of Registered European Union Trade Mark No's 000070813 and 018176419.





Application is for a Series of 3 Trade Marks.

**273335** 15 July 2025

Class 35. Medical billing services for doctors; Business administration; Business administration services; Business management and administration; Advertising; Office functions.

Class 44. Medical examination services; Medical consultancy services; Medical treatment services; Medical and healthcare services; Medical clinic services; Health clinic services [medical]; Health care consultancy services [medical].

Bartra Medical Limited, Third Floor Longphort House, Earlsfort Centre, Dublin 2 D02WK40, Ireland. Address for service is c/o Bartra Medical Limited, C/o Kate Twomey, Third Floor Longphort House, Earlsfort Centre, Dublin 2 D02WK40, Ireland.

## Curious Tourists

**273336** 13 July 2025

Class 41. Entertainment.

Colin Byrne, 19 Mount Symon Close, Clonsilla, Dublin D15 P9Y1, Ireland. Address for service is c/o Colin Byrne, 19 Mount Symon Close, Clonsilla, Dublin D15 P9Y1, Ireland.

## ALLBRITE

**273337** 15 July 2025

Class 6. Stainless steel in sheet form.

Class 11. Stainless steel sink tops.

Class 40. Polishing of stainless steel.

Allbrite Engineering, Ballingowan, Tralee V92TF34, Ireland. Address for service is c/o Allbrite Engineering, Ballingowan, Tralee V92TF34, Ireland.

## HARRIET

**273338** 16 July 2025

Class 14. Jewellery; precious stones; non-precious stones; precious metals and their



alloys; watches, clocks; alloys of precious metal; clocks; horological instruments; chronometric instruments; jewellery cases; jewellery organizer cases; parts and fittings for all the aforesaid goods.

Class 35. Retail services relating to jewellery, precious stones, non-precious stones, precious metals and their alloys, watches, clocks, alloys of precious metal, horological and chronometric instruments, printed matter, picture frames, mirrors and jewellery cases, glassware, porcelain and earthenware, smoker's articles; retail services relating to leather straps, bags, attaché cases, belts, handbags, key cases, wallets and purses, all of the aforesaid made of leather; advisory, consultancy and information services relating to all the aforesaid.

Priority Date Claimed: 19 February 2025 United Kingdom

Signet Jewelers Brands Limited, Hunters Road, Hockley, Birmingham B19 1DS, United Kingdom. Address for service is c/o HGF IP Limited, The Guinness Enterprise Centre (GEC), Taylor's Lane, Dublin D8, Ireland.

MyPension365

273339 06 September 2024

Class 9. Computer software, application software and electronic publications in the

fields of financial services and pension services.

Class 36. Financial services; insurance services; assurance services; pension services; life insurance services; life assurance services; financial services relating to investment; banking services; stock broking services; monetary services; financial planning services; investment management and consultancy services; management and selling of mutual funds; mortgage and loan services; providing advisory services in relation to all of the aforesaid.

New Ireland Assurance Company plc, 87-89 Pembroke Road, Ballsbridge, Dublin 4 D04 X738, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

The application for registration is proceeding on the basis of the mark having acquired distinctiveness through use.

CONTROLLED ENVIRONMENTS COMPANY

273340 30 September 2024

Class 9. Inventory software; logistics software; software for supply chain management, e-business and e-commerce; workflow management system software; business intelligence software;

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|           | software for e-business portals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | protective covers for furniture, emergency lamps, emergency eyewash stations, emergency warning lights, crowd control barriers, not of metal, storage drawers [furniture], storage cases [furniture], storage boxes [furniture], storage units [furniture], storage shelves [furniture], storage tanks of plastic, goods handling carts, containers (non-metallic-) for the handling of goods [other than household or kitchen use], workstations, seating, workbenches, laboratory furniture, shelves, display cabinets, soldering products, lighting products, optical products, ladders, steps, adhesives, sealants, gloves, eyewear, safety products, packaging supplies, signs, labels, stationery, test instruments, measurement instruments and metrology products; online wholesale services in connection with the sale of tools, fasteners, fixings, brushes, dispensers, cleaning products, cleaners, cleaning tools, hygiene supplies, janitorial supplies, wipes, workwear, cleanroom products, protective visors, protective eye pieces, protective goggles, protective helmets, protective shoes, protective floor coverings, protective industrial respiratory masks, protective industrial face shields, protective gloves for cleanroom purposes, protective gowns for cleanroom purposes; reusable protective clothing for cleanroom purposes, disposable protective clothing for cleanroom purposes, protective suits for cleanroom purposes,                                                                               |
| Class 35. | Supply chain management services; business advisory services; business analytics services; business intelligence services; business process management; procurement services; inventory management; inventory control; inventory preparation; business project management services; data processing, systematisation and management services; business management of logistics for others; business consultancy services relating to the supply of quality management systems; consultancy services relating to the procurement of goods and services; outsourcing services in the nature of arranging procurement of goods and services for others; consulting services in the area of cost management; cost management services; Online retail services in connection with the sale of tools, fasteners, fixings, brushes, dispensers, cleaning products, cleaners, cleaning tools, hygiene supplies, janitorial supplies, wipes, workwear, cleanroom products, protective visors, protective eye pieces, protective goggles, protective helmets, protective shoes, protective floor coverings, protective industrial respiratory masks, protective industrial face shields, protective gloves for cleanroom purposes, protective gowns for cleanroom purposes; reusable protective clothing for cleanroom purposes, disposable protective clothing for cleanroom purposes, protective suits for cleanroom purposes, | protective covers for furniture, emergency lamps, emergency eyewash stations, emergency warning lights, crowd control barriers, not of metal, storage drawers [furniture], storage cases [furniture], storage boxes [furniture], storage units [furniture], storage shelves [furniture], storage tanks of plastic, goods handling carts, containers (non-metallic-) for the handling of goods [other than household or kitchen use], workstations, seating, workbenches, laboratory furniture, shelves, display cabinets, soldering products, lighting products, optical products, ladders, steps, adhesives, sealants, gloves, eyewear, safety products, packaging supplies, signs, labels, stationery, test instruments, measurement instruments and metrology products; online wholesale services in connection with the sale of tools, fasteners, fixings, brushes, dispensers, cleaning products, cleaners, cleaning tools, hygiene supplies, janitorial supplies, wipes, workwear, cleanroom products, protective visors, protective eye pieces, protective goggles, protective helmets, protective shoes, protective floor coverings, protective industrial respiratory masks, protective industrial face shields, protective gloves for cleanroom purposes, protective gowns for cleanroom purposes; reusable protective clothing for cleanroom purposes, disposable protective clothing for cleanroom purposes, protective suits for cleanroom purposes, protective covers for furniture, emergency lamps, emergency eyewash stations, |

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|           | <p>emergency warning lights, crowd control barriers, not of metal, storage drawers [furniture], storage cases [furniture], storage boxes [furniture], storage units [furniture], storage shelves [furniture], storage tanks of plastic, goods handling carts, containers (non-metallic-) for the handling of goods [other than household or kitchen use], workstations, seating, workbenches, laboratory furniture, shelves, display cabinets, soldering products, lighting products, optical products, ladders, steps, adhesives, sealants, gloves, eyewear, safety products, packaging supplies, signs, labels, stationery, test instruments, measurement instruments and metrology products; retail and wholesale services in connection with the sale of tools, fasteners, fixings, brushes, dispensers, cleaning products, cleaners, cleaning tools, hygiene supplies, janitorial supplies, wipes, workwear, cleanroom products, protective products, emergency products, storage products, goods handling products, workstations, seating, workbenches, laboratory furniture, display products, soldering products, lighting products, optical products, ladders, steps, adhesives, sealants, gloves, eyewear, safety products, packaging supplies, signs, labels, stationery, test instruments, measurement instruments and metrology products; information, advice and consultancy relating to the aforesaid services.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Class 37. | Installation, repair and maintenance of cleanroom systems, facilities and equipment; building project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Production Equipment Unlimited Company, Riverside Commercial Estate, Tuam Road, Galway, Ireland. Address for service is c/o Production Equipment Unlimited Company Limited, C/O Keltie</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Limited, Portershed a Dó, 15 Market Street, Galway H91 TCX3, Ireland.

The mark is proceeding on the basis of distinctiveness acquired through use.



The Mark is a Collective Mark.

Application is for a Series of 2 Trade Marks.

**273341** 13 July 2011

Class 1. Chemicals used in industry, science and photography, as well as in agriculture, horticulture and forestry; unprocessed artificial resins, unprocessed plastics; manures; fire extinguishing compositions; tempering and soldering preparations; chemical substances for preserving foodstuffs; tanning substances; adhesives used in industry

Class 5. Pharmaceutical and veterinary preparations; sanitary preparations for medical purposes; dietetic substances adapted for medical use, food for babies; plasters, materials for

dressings; material for stopping teeth, dental wax; disinfectants; preparations for destroying vermin; fungicides, herbicides

Class 9. Scientific, nautical, surveying, photographic, cinematographic, optical, weighing, measuring, signalling, checking (supervision), life-saving and teaching apparatus and instruments; apparatus and instruments for conducting, switching, transforming, accumulating, regulating or controlling electricity; apparatus for recording, transmission or reproduction of sound or images; magnetic data carriers, recording discs; automatic vending machines and mechanisms for coin-operated apparatus; cash registers, calculating machines, data processing equipment and computers; fire-extinguishing apparatus

Class 10. Surgical, medical, dental and veterinary apparatus and instruments, artificial limbs, eyes and teeth; orthopedic articles; suture materials

Class 12. Vehicles; apparatus for locomotion by land, air or water

Class 16. Paper, cardboard and goods made from these materials, not included in other classes; printed matter; bookbinding material; photographs; stationery; adhesives for stationery or household purposes; artists' materials; paint brushes; typewriters and office requisites (except furniture); instructional and teaching material (except apparatus); plastic materials for packaging (not included in other classes); printers' type; printing blocks

Class 19. Building materials (non-metallic); non-metallic rigid

- pipes for building; asphalt, pitch and bitumen; non-metallic transportable buildings; monuments, not of metal
- Class 25. Clothing, footwear, headgear
- Class 29. Meat, fish, poultry and game; meat extracts; preserved, frozen, dried and cooked fruits and vegetables; jellies, jams, compotes; eggs, milk and milk products; edible oils and fats
- Class 30. Coffee, tea, cocoa, sugar, rice, tapioca, sago, artificial coffee; flour and preparations made from cereals, bread, pastry and confectionery, ices; honey, treacle; yeast, baking-powder; salt, mustard; vinegar, sauces (condiments); spices; ice
- Class 31. Agricultural, horticultural and forestry products and grains not included in other classes; live animals; fresh fruits and vegetables; seeds, natural plants and flowers; foodstuffs for animals, malt
- Class 32. Beers; mineral and aerated waters and other non-alcoholic drinks; fruit drinks and fruit juices; syrups and other preparations for making beverages
- Class 33. Alcoholic beverages (except beers)
- Class 35. Advertising; business management; business administration; office functions
- Class 36. Insurance; financial affairs; monetary affairs; real estate affairs
- Class 37. Building construction; repair; installation services
- Class 38. Telecommunications
- Class 39. Transport; packaging and storage of goods; travel arrangement
- Class 40. Treatment of materials

- Class 41. Education; providing of training; entertainment; sporting and cultural activities
- Class 42. Scientific and technological services and research and design relating thereto; industrial analysis and research services; design and development of computer hardware and software
- Class 43. Services for providing food and drink; temporary accommodation
- Class 44. Medical services; veterinary services; hygienic and beauty care for human beings or animals; agriculture, horticulture and forestry services

The Regulations approved by the Controller for governing the use of this Mark are open to inspection at the Intellectual Property Office of Ireland

The Trustees for the time being of the Association of Ireland's Responsible Business Movement, 3rd Floor, Phibsborough Tower, Phibsborough Road, Dublin 7, D07 XH2D, Ireland. Address for service is c/o TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland.

The first mark in use is/will be in the colours purple, pink and white

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## Thrive Supplements Limited

**273342** 08 July 2025

- Class 1. Vitamins for use in the manufacture of food supplements; Antioxidants for use in the manufacture of food supplements; Proteins

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|          | for use in the manufacture of food supplements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | supplements to foodstuffs; Anti-oxidant food                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Class 5. | Protein supplements; Dietary supplements; Nutritional supplements; Probiotic supplements; Prebiotic supplements; Herbal supplements; Calcium supplements; Food supplements; Mineral supplements; Vitamin supplements; Mineral dietary supplements; Glucose dietary supplements; Casein dietary supplements; Protein dietary supplements; Liquid vitamin supplements; Liquid herbal supplements; Liquid dietary supplements; Liquid nutritional supplements; Lutein dietary supplements; Mineral nutritional supplements; Anti-oxidant supplements; Wheat dietary supplements; Zinc dietary supplements; Dietary food supplements; Lecithin dietary supplements; Alginate dietary supplements; Pollen dietary supplements; Enzyme dietary supplements; Albumin dietary supplements; Mineral food supplements; Flaxseed dietary supplements; Wheat germ dietary supplements; Royal jelly dietary supplements; Linseed oil dietary supplements; Acai powder dietary supplements; Protein powder dietary supplements; Soy protein dietary supplements; Dietary and nutritional supplements; Pine pollen dietary supplements; Whey protein dietary supplements; Coenzyme Q10 dietary supplements; Activated charcoal dietary supplements; Folic acid dietary supplements; Food supplements for sportsmen; Dietary supplements for humans; Flaxseed oil dietary supplements; Mineral | supplements to foodstuffs; Anti-oxidant food supplements; Vitamin and mineral supplements; DHA algae oil dietary supplements; Food supplements in liquid form; Dietary supplements in powder form; Dietary supplements consisting of vitamins; Dietary supplements for controlling cholesterol; Food supplements for dietetic use; Dietary supplements and dietetic preparations; Vitamin and mineral food supplements; Mineral dietary supplements for humans; Food supplements for non-medical purposes; Dietary supplements consisting primarily of iron; Dietary supplements consisting primarily of calcium; Dietary supplements consisting primarily of magnesium; Nutritional supplements consisting primarily of magnesium; Nutritional supplements consisting primarily of zinc; Nutritional supplements consisting primarily of iron; Nutritional supplements consisting primarily of calcium; Nutritional supplements consisting of fungal extracts; Dietary supplements with a cosmetic effect; Food supplements consisting of trace elements; Food supplements consisting of amino acids; Health-aid foods supplements containing ginseng; Ganoderma lucidum spore powder dietary supplements; Dietary supplements promoting fitness and endurance; Dietary food supplements used for modified fasting; Health food supplements made principally of vitamins; Health food supplements |

made principally of minerals; Herbal dietary supplements for persons special dietary requirements; Vitamin preparations in the nature of food supplements; Health food supplements for persons with special dietary requirements; Dietary supplements for pets in the nature of a powdered drink mix.

- Class 35. Retail services in relation to dietary supplements; Wholesale services in relation to dietary supplements.
- Class 40. Custom manufacturing of dietary supplements for humans.
- Class 42. Research and development services in the field of nutritional supplements.
- Class 44. Providing information about dietary supplements and nutrition; Providing information relating to dietary and nutritional supplements.

Thrive supplements Limited, 51 BRACKEN ROAD, SANDYFORD, DUBLIN 18, DUBLIN D18CV48, Ireland. Address for service is c/o Coyne Solicitors Andrea Clarke, Liffey Bridge House, 1 Main Street, Lucan, DUBLIN K78KV24, Ireland.

SECURECOMM

273343 27 March 2025

- Class 9. Intruder and burglar alarms for residential and commercial properties; parts

and fittings included in Class 9 of all the aforesaid goods.

- Class 37. Installation, repair, servicing and maintenance of intruder and burglar alarm systems for residential and commercial properties; installation, repair, servicing and maintenance of closed circuit TV (CCTV) systems, access control systems and other monitoring systems; information, advisory and consultancy services connected with all the aforesaid services.
- Class 45. Monitoring of intruder alarm systems in residential and commercial properties; information, advisory and consultancy services connected with all the aforesaid services.

Priority Date Claimed: 03 October 2024 United Kingdom

Assa Abloy Limited, Portobello, School Street, Willenhall, West Midlands WV13 3PW, United Kingdom. Address for service is c/o Simon Mark Bentley, c/o Abel & Imray, Travesía Cantalarrana 2, 27700 Ribadeo, Spain.



273344 10 July 2025

Class 43. Take-away fast food services.

Olsi Proga, 132 Ashfield Mullingar, Westmeath N91V8K3, Ireland. Address for service is c/o Olsi Proga, 132 Ashfield Mullingar, Westmeath N91V8K3, Ireland.

The mark in use is/will be in the colour(s)  
Black,white,red,green

BOOKKEEPING CONSULTING PAYROLL SOLUTIONS

**ONWIRE**  
GLOBAL

**273345** 16 July 2025

Class 35. Accounting; Management accounting; Accounting services; Administrative accounting; Accounting advisory services; Business consulting; Management consulting; Business relocation consulting; Professional business consulting; Payroll preparation; Computerised payroll preparation; Wage payroll preparation; Payroll advisory services; Payroll processing services [for

others]; Preparation of payrolls [for others]; Administration of business payroll for others; Data processing services in the field of payroll; Bookkeeping.

Darija Holm, 39 Castlegate Green, Adamstown, Lucan K78 F455, Ireland. Address for service is c/o Darija Holm, 39 Castlegate Green, Adamstown, Lucan K78 F455, Ireland.

**Vitanyx**

**273346** 15 July 2025

Class 5. Food supplements.

ClickMarket, B18 Burkes Lane, Dominick Street Upper, Galway H91 KH74, Ireland. Address for service is c/o ClickMarket, C/o Issame Elmotii, B18 Burkes Lane, Dominick Street Upper, Galway H91 KH74, Ireland.

**BV Real Estate**

**273347** 16 July 2025

Class 36. Real estate services; Real estate agency.



BV Real Estate, Unit 20, Glenrock Business Park,  
Galway H91N23C, Ireland. Address for service is  
c/o BV Real Estate, Unit 20, Glenrock Business  
Park, Galway H91N23C, Ireland.

marketing; Research services  
relating to advertising and  
marketing; Consumer  
profiling for commercial or  
marketing purposes;  
Development and  
implementation of marketing  
strategies for others.

## AmpliStory

273348 16 July 2025

Class 35. Marketing; Marketing  
services; Marketing studies;  
Marketing research;  
Marketing consultancy;  
Marketing consulting;  
Product marketing;  
Marketing research services;  
Business marketing  
consultancy; Marketing  
advisory services; Marketing  
consultation services;  
Marketing analysis services;  
Conducting marketing  
studies; Business marketing  
services; Marketing research  
or analysis; Preparation of  
marketing surveys;  
Marketing research and  
analysis; Analysis of  
marketing trends; Business  
marketing consulting  
services; Planning of  
marketing strategies;  
Development of marketing  
concepts; Investigations of  
marketing strategy; Business  
advice relating to marketing;  
Advisory services relating to  
marketing; Consulting  
services relating to  
marketing; Preparation of  
reports for marketing;  
Market research and  
marketing studies; Business  
advice relating to strategic  
marketing; Provision of  
information relating to

Grace Windsor, 7 Liosmor, Cappagh Road,  
Knocknacarra H91W9DF, Ireland. Address for  
service is c/o Grace Windsor, 7 Liosmor, Cappagh  
Road, Knocknacarra H91W9DF, Ireland.



273349 25 January 2025

Class 10. Compression boots for  
medical and sports recovery  
purposes; Electric massage  
apparatus and devices for  
therapeutic purposes; Sports  
recovery tools.

Class 25. Sports clothing; Clothing.

Class 28. Sports recovery apparatus for  
non-medical use.

Class 35. Online retail store services  
featuring sports recovery  
devices, fitness equipment,  
and branded clothing;  
Advertising and promotional  
services for sports and fitness  
recovery products.

Taranis Recovery Ltd, Clonad, Portlaoise, Laois R32KT5P, Ireland. Address for service is c/o Taranis Recovery Ltd, Clonad, Portlaoise, Laois R32KT5P, Ireland.

occupational health and safety; Education and training services in the field of occupational health and safety.

GHEORGHE POPESCU, 20 Harcourt Street, Dublin D02H364, Ireland. Address for service is c/o GHEORGHE POPESCU, 20 Harcourt Street, Dublin D02H364, Ireland.

## Medicore Ambulance Services

273350 27 May 2025

- Class 39. Ambulance services; Ambulance transport; Transportation by ambulance; Transportation of patients by ambulance.
- Class 41. Training; Training courses; Training services.
- Class 44. Emergency medical assistance provided in an ambulance; Healthcare services; Human healthcare services; Medical and healthcare services.

David Bradley, 78 Castlewood, Hartstown, Dublin D15, Ireland. Address for service is c/o David Bradley, 78 Castlewood, Hartstown, Dublin, Ireland.



273352 02 May 2025

- Class 11. Apparatus and installations for water supply, steam generating and sanitary purposes; shower trays, low-level shower trays, level access shower trays, split-level shower trays, wet room shower trays; wet room former trays; shower tray fitting kits; plumbing fittings, namely, Shower fittings, Bath fittings, Fittings for basins, Fittings for bidets, Sanitary water fittings, Fittings for sanitary purposes, Fittings for the draining of water, Fittings for installation of and waterproofing of bathrooms and wet rooms; parts fittings and accessories for all the aforesaid goods.

## Canavan Byrne

273351 15 June 2025

- Class 41. Training services relating to health and safety; Education and training in the field of

Priority Date Claimed: 18 November 2024 United Kingdom

THE UNDERFLOOR HEATING STORE LIMITED, Highbourne House Eldon Way, Crick Industrial Estate, Crick, Northampton NN6 7SL, United Kingdom. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

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## ITS Industry Training Services

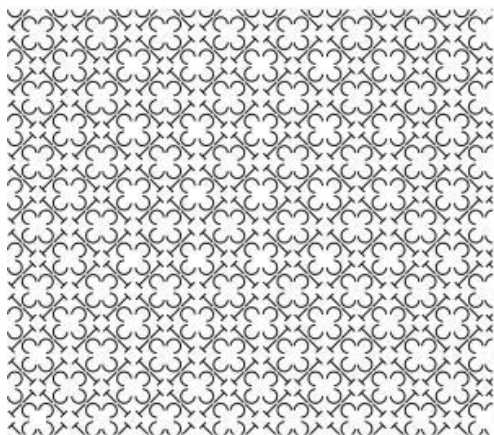
273353 16 July 2025

Class 41. Education, training, and instruction services; Providing online education, training, and instruction services; Provision of educational and training courses, tutorials, classes, seminars and workshops; Provision of education and training services for industry; Provision of training facilities; Provision of education and training services relating to the building and construction industry; Provision of education and training services relating to telecommunications and the telecommunication industry; Provision of education and training services relating to the aerospace industry; Provision of education and training services relating to the transportation, rail, and freight industry; Provision of education and training services relating to the shipbuilding industry; Provision of education and

training services relating to the pharmaceutical industry; Provision of education and training services relating to the agricultural industry; Provision of education and training services relating to traffic management and traffic management systems; Management education and training services; Provision of education and training services in the field of hazard identification, risk management and risk assessment; Provision of education and training services in the field of business management; Provision of education and training services in the field of project management; Provision of education and training services relating to health and safety; Provision of education and training services relating to the use of construction machinery; Provision of education and training services relating to the use of cranes, lifting and hoisting apparatus and equipment, moving and handling apparatus and equipment; Provision of education and training services relating to the use of elevating or lifting work platforms, and powered access platforms; Provision of Emergency Response Team (ERT) training and courses; Provision of working at heights training and courses; Provision of confined space training and courses; Technical training relating to fire risks and hazards; Education and training services relating to the use of fire fighting apparatus and equipment; Education and training in the field of occupational health and safety; Education and training services relating to

first aid, cardiopulmonary resuscitation (CPR), and life-saving techniques and interventions; Production of educational sound and video recordings; Publication of texts, books, magazines and other printed matter; Publication of educational, teaching and training materials; Arranging, organising and conducting examinations, tests, evaluations and assessments; Design and development of education, instruction, teaching, and training courses (including distance learning, correspondence and e-learning courses); Design and development of teaching and assessment methods; Information, advisory and consultancy services relating to all the aforesaid services.

INDUSTRY TRAINING SERVICES LTD, 7 Derryneskan Road, Portadown, County Armagh BT62 1UH, United Kingdom. Address for service is c/o TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland.



273354 27 June 2025

Class 18. Bags; Tote bags; Evening bags; Handbags; Ladies' handbags; Ladies handbags; Clutch handbags; Fashion handbags; Evening handbags; Slouch handbags; Clutch purses [handbags]; Purse frames [handbags]; Handbags for men.

ROBERT SCANLAN, Allied House, 804 Northwest Business Park, Ballycoolin, DUBLIN D15A9WE, Ireland. Address for service is c/o ROBERT SCANLAN, Allied House, 804 Northwest Business Park, Ballycoolin, DUBLIN D15A9WE, Ireland.

## The Macro to Micro Strategist

273355 04 July 2025

Class 9. Podcasts.  
Class 16. Books; Stationery.  
Class 42. Website design.

Patrick Daly, 49 Guinness Enterprise Centre, Taylors Lane, Dublin 8 D08 W8CX, Ireland. Address for service is c/o Patrick Daly, 49 Guinness, Taylors Lane, Dublin 8 D08 W8CX, Ireland.



273356 12 June 2025

Class 30. Bakery goods.

Michael John Ryder, Tooreen, Knockmore, Ballina, Mayo County F26 N2R3, Ireland. Address for service is c/o Michael John Ryder, Tooreen, Knockmore, Ballina, Mayo County F26 N2R3, Ireland.

The mark in use will be in the colours red, cream and gold

## CPAC Group

273357 05 February 2025

Class 6. Wall panels of metal; Dividing wall panels of metal; Insulated metal cladding panels for walls; Metal panels; Steel beams; Building beams (Metal -); Construction materials of metal; Metal beams; Metal

roofing materials; Portable metal buildings; Portable mobile metal office buildings; portable metal accommodation; Portable metallic constructions; Portable cabins of metal; Modular portable building structures [metal]; Portable structures of metal; Metal flooring; Metal joists; Metal ceilings; Roofing materials of metal; Storage containers of metal.

Class 19. Non-metallic wall panels; Dividing wall panels of (Non-metallic -); Insulated cladding panels for walls (Non-metallic -); Panels (Building -) not of metal; Construction materials, not of metal; Beams (Non-metallic -) for building purposes; Portable buildings (Non-metallic -); Portable mobile office buildings (Non-metallic -); portable accommodation (Non-metallic -); Portable constructions (Non-metallic -); Portable cabins (Non-metallic -); Modular portable building structures (Non-metallic -); Portable structures (Non-metallic -); Roofing materials (Non-metallic -); Flooring (Non-metallic -); Joists, not of metal; Ceilings, not of metal.

Class 37. Construction advisory services; Advisory services relating to the construction of buildings; Construction services; Construction supervision; Building services; Supervision of the engineering of buildings; Heavy engineering construction.

Class 39. Rental of space, structures, units and containers, for storage and transportation; Rental of storage containers; Rental of portable storage containers.

- Class 42. Design services for the construction industry; Design consultancy; Construction design; Development of construction projects; Engineering consultancy services; Engineering consultancy relating to design; Engineering services.
- Class 43. Rental and hire of temporary accommodation; rental and hire of furniture; Rental and hire of transportable buildings; Rental and hire of portable buildings; Rental and hire of portable modular buildings.

CPAC Modular Limited, 1 Dunshaughlin Business Park, Dunshaughlin, Co. Meath A85 FX60, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

## PYou

273358 13 July 2025

- Class 9. Educational software; downloadable electronic publications in the field of education and training; downloadable digital learning materials; mobile applications for educational purposes; software for creating, delivering, managing, and tracking educational courses and programs.
- Class 41. Educational services; provision of online and in-person courses, workshops, and training programs;

arranging and conducting of educational events, seminars, and conferences; teaching and instructional services via digital and physical platforms; provision of educational and training services via online and digital platforms, including the creation and dissemination of educational materials in electronic format; educational consultancy.

- Class 42. Software as a service (SaaS) featuring software for education, learning management, and content delivery; platform as a service (PaaS) for hosting and managing digital educational programs; development, maintenance, and hosting of educational software; providing temporary use of non-downloadable software for instructional purposes.

Pembroke International College, 47. Belmont Park, Ballinlough, Cork T12Y3V7, Ireland. Address for service is c/o Pembroke International College, 47. Belmont Park, Ballinlough, Cork T12Y3V7, Ireland.

## HOUSE OF IRELAND House of Ireland

Application is for a Series of 2 Trade Marks.

273359 11 July 2025

- Class 14. Precious metals and their alloys; jewellery, precious and semi-precious stones;

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|           | horological and chronometric instruments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Class 21. | Household or kitchen utensils and containers; Cookware and tableware, except forks, knives and spoons; Combs and sponges; Brushes, except paintbrushes; Brush-making materials; Articles for cleaning purposes; Unworked or semi-worked glass, except building glass; Glassware, porcelain and earthenware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | services, and on-line (or internet) retail services in respect of apparatus for recording, transmission or reproduction of sound or images, magnetic data carriers, recording discs, CDs, DVDs, and other recorded media; retail store services, mail order services, and on-line (or internet) retail services in respect of printed matter, bookbinding material, photographs, stationery, artists' materials, and paint brushes; retail store services, mail order services, and on-line (or internet) retail services in respect of luggage and carrying bags, wallets and purses, leather goods, namely luggage and carrying bags, wallets and purses; retail store service, mail order services, and on-line (or internet) retail services in respect of furniture, home furnishings, tableware and cookware, household and kitchen utensils and containers, cutlery; retail store services, mail order services, and on-line (or internet) retail services in respect of glassware, crystal, porcelain, earthenware; retail store services, mail order services, and on-line (or internet) retail services in respect of textiles, household linen, floor coverings, window and wall coverings; retail store services, mail order services, and on-line (or internet) retail services in respect of Christmas tree decorations, hampers, food and confectionery, and beverages; retail store services, mail order services, and on-line (or internet) retail services in respect of games and playthings; provision of the aforesaid services from a computer |
| Class 25. | Clothing, footwear, headgear.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Class 35. | Advertising, promotion and marketing services; business management and business administration; the bringing together, for the benefit of others, of a variety of goods, enabling customers to conveniently view and purchase those goods in a retail clothes, homeware, jewellery and giftware store, and from a clothing, home furnishings and giftware catalogue by mail order or by means of telecommunications, or by means of the internet; retail store services, mail order services, and on-line (or internet) retail services in respect of clothing, footwear, headgear and clothing accessories; retail store services, mail order services, and on-line (or internet) retail services in respect of perfumery, toiletries, cosmetics, and candles; retail store services, mail order services, and on-line (or internet) retail services in respect of jewellery, watches, and clocks; retail store services, mail order services, and on-line (or internet) retail services in respect of glasses and sunglasses; retail store services, mail order |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

database or the Internet;  
compilation of  
advertisements for use as  
web pages on the Internet;  
provision of space on web  
sites for advertising and  
retailing goods; advisory and  
information services relating  
to the aforesaid.

Mark Galligan, 34 Green Road, Blackrock, Co.  
Dublin A94 T3H2, Ireland Anne-Marie Galligan, 34  
Green Road, Blackrock, Co. Dublin A94 T3H2,  
Ireland. Address for service is c/o FRKelly,  
Waterways House, Grand Canal Quay, Dublin D02  
PD39, Ireland.

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## East Cork Camino

**273360** 14 July 2025

Class 35. Advertising in the field of  
tourism and travel.

Paul Kelly, Birchwood, Caherultan, Castlemartyr  
Cork P25V240, Ireland. Address for service is c/o  
Paul Kelly, Birchwood, Caherultan, Castlemartyr  
Cork P25V240, Ireland.

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## HI-LINE INDUSTRIES

**273361** 02 October 2024

Class 7. Air compressors; compressed  
air systems.

Class 11. compressed air filters;  
compressed air dryers;  
ionization apparatus for the  
treatment of compressed air;  
separators for the purification  
and cleaning of compressed  
air; filtering apparatus using  
activated carbon for filtering  
compressed air; compressed  
air adsorption dryers;  
desiccant air dryers;  
compressed air receiver  
storage units; condensate  
drains being parts of  
compressed air purification  
systems; compressed air  
mufflers, compressed air  
silencers, oxygen generators,  
nitrogen generators, chillers,  
all being compressed air  
purification equipment;  
compressed air drying  
apparatus for use in heating,  
ventilation, air conditioning  
systems and refrigeration  
systems.

HI-LINE INDUSTRIES LIMITED, Green Street,  
Burton-Upon-Trent, Staffordshire, England DE14  
3RT, United Kingdom. Address for service is c/o  
FRKelly, Waterways House, Grand Canal Quay,  
Dublin D02 PD39, Ireland.

The application for registration is proceeding based  
on honest concurrent use with Registered European  
Trade Mark No. 018022727, International Registered  
Trade Mark No. W01470446 and Registered  
European Trade Mark No. 018873733





**273362** 13 May 2025

- Class 41. Production of animation; Providing online comic books, not downloadable; Providing online non-downloadable comic books and graphic novels.

Rocky Aibangbee, 41 Pearse road, Ballypnehane, Cork city T12W8X8, Ireland. Address for service is c/o Rocky Aibangbee, 41 Pearse road, Ballypnehane, Cork city T12W8X8, Ireland.



**273363** 15 May 2025

- Class 37. Domestic cleaning; Facade cleaning; Window cleaning; Cleaning of windows; Interior and exterior window cleaning services; Clearing and cleaning gutters; Pressure grouting services; House cleaning; Pressure washing services; Carpet cleaning.

David Brown, 25 Littlebrook, Chapel Road, Delgany Co Wicklow, A63 R3H0, Ireland. Address for service is c/o David Brown, 25 Littlebrook, Chapel Rd, Delgany Co Wicklow, A63 R3H0, Ireland.



**273364** 18 December 2024

- Class 35. Office equipment rental services; Business consultancy and advisory services.
- Class 36. Rental of offices; Rental of studios.
- Class 38. Provision and rental of telecommunication facilities and equipment.
- Class 41. Education and training; Rental of recording and television studios; Arranging of conferences facilities; Provision of audio, visual and photographic equipment and facilities; Business mentoring services.
- Class 43. Rental and provision of work place and office furniture and equipment for the provision of food and drink.

Western Development Commission, Dillon House, Ballaghaderreen, Co Roscommon, F45 WY26, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

The application for registration is proceeding on the basis of the mark having acquired distinctiveness through use. The application for registration is proceeding based on honest concurrent use with Registered European Union Trade Mark No. 017514662.

The mark in use is/will be in the colour(s) yellow and navy blue

Western Development Commission, Dillon House, Ballaghaderreen, Co Roscommon, F45 WY26, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

The application for registration is proceeding on the basis of the mark having acquired distinctiveness through use.

The application for registration is proceeding based on honest concurrent use with Registered European Union Trade Mark No. 017514662 and Registered European Union Trade Mark No. 018462157.

## CONNECTEDHUBS

**273365** 18 December 2024

- Class 35. Office equipment rental services; Business consultancy and advisory services.
- Class 36. Rental of offices; Rental of working studios.
- Class 38. Provision and rental of telecommunication facilities and equipment.
- Class 41. Education and training; Rental of recording and television studios; Arranging of conferences facilities; Provision of audio, visual and photographic equipment and facilities; Business mentoring services.
- Class 43. Rental and provision of work place and office furniture and equipment for the provision of food and drink.



Application is for a Series of 2 Trade Marks.

**273366** 17 July 2025

Class 29. Ready cooked meals consisting primarily of chicken; ready cooked meals consisting primarily of meat; ready cooked meals consisting primarily of poultry; ready cooked meals consisting wholly or substantially wholly of game; cooked meals consisting principally of fish; stews; pre-cooked curry stew; prepared dishes consisting principally of meat; prepared dishes consisting principally of poultry; prepared dishes consisting principally of game; prepared dishes consisting principally of fish; prepared meals consisting primarily of seafood; prepared meals consisting principally of vegetables; prepared meals consisting primarily of meat substitutes; prepared meals containing [principally] eggs; prepared dishes consisting principally of meat substitutes; prepared meals consisting primarily of vegetables; prepared meals consisting principally of vegetables; prepared salads; prepared meat; vegetables (Prepared -); prepared vegetable products; cooked vegetables; cooked meat; cooked meats; cooked poultry; cooked game; cooked fish; cooked seafood; cooked meat dishes; prepared fish dishes; fish (food products made from -); foods made from fish; shellfish, not live; meat; fish; chicken; poultry; game; seafood; shellfish; tofu; meat substitutes; fish substitutes; pulses and dhalls; mixed vegetables; processed fruits; prepared fruits; vegetable purees; vegetable pastes; preserved, frozen, dried and cooked fruits and vegetables; soups; soup mixes; preparations for making

soup; noodle soups; broth; preparations for making broth; bouillon; preparations for making bouillon; stocks; pickles; blended vegetable oils for culinary purposes; edible oils and fats.

Class 30. Rice-based prepared meals; noodle-based prepared meals; pies; dumplings; spring rolls; sushi; seaweed rolls; pasta-based prepared meals; farinaceous foods; prepared meals consisting principally of farinaceous foods; prepared pizza meals; meals consisting primarily of rice; meals consisting primarily of pasta; prepared meals consisting principally of noodles; noodles; Asian noodles; dried and fresh pastas, noodles and dumplings; prepared rice and pasta meals containing meat, poultry, seafood, tofu and vegetables; aromatic preparations for food; curry powders; sauces for food; sauces (condiments); gravy mixes; curry pastes; vegetable pastes [sauces]; farinaceous food pastes; savoury sauces, chutneys and pastes; stuffing mixes [foodstuffs]; preparations for making sauces; dressings for salads; condiments; flavourings and seasonings; marinades; processed herbs; spices; spice mixes; chutneys; aromatic preparations for food; food flavourings, other than essential oils; salt; pepper; mustard; vinegar; prepared baking mixes; instant pancake mixes; pre-mixes ready for baking; poppadoms; bread, pastry and confectionery; desserts; coffee; coffee beans; coffee based beverages; cocoa; chocolate based drinks; tea; tea based beverages; infusions, not medicinal.

Daily Bake Manufacturing Limited, 58d Hamiltonsbawn Industrial Estate, Hamiltonsbawn Road, Armagh BT60 1HW, United Kingdom. Address for service is c/o MICHAEL FITZSIMONS, TMR Fitzsimons Trademarks, 44 Laurence Street, Drogheda, Co. Louth, Ireland.

The mark in use is/will be in the colour(s) Black and white.

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## Savelle

**273367** 17 July 2025

Class 14. Jewellery.

Andy Cag Lok Liu, 30 Dunvale Lawn, Co Cork T12W21E, Ireland. Address for service is c/o Andy Cag Lok Liu, 30 Dunvale Lawn, Co Cork T12W21E, Ireland.



**273368** 17 July 2025

Class 9. video screens; interactive touch screen terminals; batteries, electric; protective films adapted for smartphones; cases for smartphones; battery chargers; cables, electric; headphones; portable power chargers; smartphones; USB flash drives; selfie sticks [hand-held monopods]; Smart watches; cell phone straps; electric plugs; selfie ring lights for smartphones; holders adapted for mobile telephones and smartphones; intercommunication apparatus; flash lamps for smartphones; mobile phone ring holders.

Shenzhen Sunlong Technology Co., Ltd., Room 501, BLDG 2000070, Shangwei Industrial Zone, Zhangkengjing Community, Guanhu St., Longhua Dist., 518000 Shenzhen, China. Address for service is c/o Krzysztof Breguła, Dolna 1/3p, 42-600 Tarnowskie Góry, Poland.

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## Purely Dental

**273369** 17 July 2025

Class 10. Dental implants.  
 Class 35. Marketing services in the field of dentistry.  
 Class 44. Dentistry; Prosthetic dentistry; Dentistry services; Sedation dentistry; Cosmetic dentistry; Cosmetic dentistry services; Advice relating to dentistry; Providing information relating to

dentistry; Dental  
consultations.

Patrick Steed, 10 The Moorings St Marys Road,  
Dublin D04T285, Ireland. Address for service is c/o  
Patrick Steed, 78 Merrion Square, Dublin D02R251,  
Ireland.



**Ailtir**



Application is for a Series of 3 Trade Marks.

**273370** 18 July 2025

Class 9. Software.

Class 37. Construction.

Donagh Ó Buachalla, Sliabh Mis, Clahane Ballyard,  
Tralee V92DTV7, Ireland. Address for service is c/o  
Donagh Ó Buachalla, Sliabh Mis, Clahane Ballyard,  
Tralee V92DTV7, Ireland.

The mark in use is/will be in the colour(s) HEX  
#0c1e54, HEX #743bef and HEX #ffffff

## Glann House

**273371** 13 June 2025

Class 43. Accommodation services;  
Accommodation  
reservations; Temporary  
accommodation; Hospitality  
services [accommodation];  
Providing temporary  
accommodation; Temporary  
accommodation services;  
Holiday accommodation  
services; Hotel  
accommodation services;  
Providing accommodation  
for functions; Provision of  
hotel accommodation; Rental  
of vacation accommodation.

Conrad Clancy, Glann, Oughterard H91 KR8P,  
Ireland. Address for service is c/o Conrad Clancy,  
Glann, Oughterard H91 KR8P, Ireland.

## Nexomic

273372 14 June 2025

- Class 9. Machine learning software for healthcare; Artificial intelligence software for healthcare.
- Class 42. Research and development in the pharmaceutical and biotechnology fields; Biotechnology research; Research and development in the field of biotechnology; Software as a service [SaaS] services featuring software for machine learning, deep learning and deep neural networks; Science and technology services; Research in the field of artificial intelligence; Genetic mapping for scientific purposes; Scientific research in the field of genetics and genetic engineering; Scientific research relating to genetics; Genetic research; Scientific laboratory services in the field of genomics; Providing genetic science information; Genetic testing for scientific research purposes; Pharmaceutical drug development services; Development of gene-based medicines; Pharmaceutical research and development; Research and development for the pharmaceutical industry; Providing medical and scientific research information in the field of pharmaceuticals and clinical trials.
- Class 44. Healthcare information services; Healthcare; Genetic testing for medical purposes; Medical and health services relating to DNA, genetics and genetic testing; Genetic

testing for cancer risk for medical purposes.

NEXOMIC LIMITED, 24A, Baggot Street Upper, Dublin D04 N528, Ireland. Address for service is c/o NEXOMIC LIMITED, 24A, Baggot Street Upper, Dublin D04 N528, Ireland.

## RUN WITH THE DOGS

273373 09 June 2025

- Class 36. Charitable fundraising.
- Class 41. Sporting activities.

David Rees, 18 Herbert Park, Ballsbridge D04 V9X7, Ireland. Address for service is c/o David Rees, 18 Herbert Park, Dublin D04 V9X7, Ireland.



273374 16 July 2025

- Class 6. Metal bollards; bollards (stainless steel).
- Class 9. Apparatus and instruments for conducting, switching,

transforming, accumulating, regulating or controlling electricity; apparatus for recording, transmission or reproduction of sound or images; magnetic data carriers, recording discs, data processing equipment and computers, controls for central heating systems; thermostats, radiator thermostats, electrical and electronic apparatus, electrical appliances, namely data networking equipment, security alarms, digital locks, electrical digital locks, electric locks, motor locks, electric strikes, electric panel latches, electric shearlocks, access control systems, proximity systems, telephone entry systems, electric door closers, electromagnetic door closers, automatic door apparatus; electrical switch gear, electrical plugs and sockets, electrical terminals, telephone sockets, electrical conduits and cables, bell push and light switches, electrical blanking plates, electrical boxes, electrical junction boxes, electrical socket boxes, electrical surface boxes for accessories, electrical connector blocks, electrical sensors, earth clamps, electrical connection apparatus, sleeving for electrical cables, shaver sockets, socket outlets, electrical wiring accessories, telephone cables, electrical timers, adaptors, electrical transformers, trunking, electrical flexes, wires and cables, plugs, plug sockets, switches, switch boxes, protection devices for electric circuits, fuse boxes, safety fuses, connections, transformers, control units for electrical appliances, cable and extension reels for

use therewith, circuit breakers, socket outlets for coaxial cable plugs, conduit and housings for electric cables, junction boxes, earth sleeves for cables, cable glands, alarms, smoke alarms, voice patch panel, voice converters; parts and fittings for the aforesaid goods; threaded electrical cable connectors; electrical switch cabinets; distribution boxes [electricity]; electrical branch boxes; skeleton switches [electric]; electrical connector housings; switches, electric; wire connectors [electricity]; connecting electrical cables; cable connectors; connections for electric cables; apparatus, instruments and cables for electricity; mounting racks for computer hardware; socket outlets (electric -); plug boxes [electric]; switchboards; commutators; circuit breakers; electric apparatus for commutation; distribution consoles [electricity]; distribution boards [electricity]; junction boxes [electricity]; low-voltage power supplies; terminal blocks (electrical connecting -); electrical distributing busbars; couplings, electric; calculating devices; data processing apparatus; electric light switches; electrical switch timers; phase modifiers; electric sockets; electrical circuit breakers; signalling lamps; power distributors [electrical]; chargers; car chargers; battery chargers; electric-car chargers; chargers for electric batteries; electric charging cables; cctv systems; motion sensors; motion recognising sensors; motion sensors for security

lights; surveillance cameras; electric door bells; electronic wirelessly enabled doorbells.

- Class 11. Electrical lighting apparatus and installations; wall lights; ceiling lights; spot lights; emergency lights; solar lights; fluorescent lights; desk lights; garden lights; electric lights; LED mood lights; LED strip lights; LED landscape lights; motion sensitive security lights; protective covers for electrical lighting apparatus and installations; electric showers; parts and fittings for all the aforesaid goods; electric radiators; electric heaters.

SHAMROCK ELECTRICAL SUPPLIES LIMITED, Unit 22, Block 613, Jordantown Road, Greenouge Business Park, Rathcoole, Co. Dublin D24 TX98, Ireland. Address for service is c/o MACLACHLAN IP LIMITED trading as MACLACHLAN IP, Unit 10, 4075 Kingswood Road, Citywest Business Campus, Dublin 24 D24 C56E, Ireland.

## Cola Floats

**273375** 09 June 2025

- Class 30. Confectionery.

Dunhills (Pontefract) Plc, PO Box No. 1, Pontefract, West Yorkshire WF8 1NJ, United Kingdom. Address for service is c/o Jeremy Erwin, Hayes solicitors LLP, Lavery House, Earlsfort Terrace, Dublin D02 T625, Ireland.

## Bó Balm

**273376** 17 July 2025

- Class 3. Non-medicated cosmetics.

Eileen Condon, Clashavaugha, Ballymacarbry, Clonmel, Co. Tipperary E91A409, Ireland. Address for service is c/o Eileen Condon, Clashavaugha, Ballymacarbry, Clonmel, Co. Tipperary E91A409, Ireland.



**273377** 21 July 2025

- Class 9. Sound recordings and downloadable digital music files.
- Class 41. Entertainment services including live performances and music production.

OLUWAFEMI AYENI, Apartment 4 Nephin Hall, Hopkins Road, Castlebar, County Mayo, F23 FP97, Ireland. Address for service is c/o OLUWAFEMI AYENI, Apartment 4 Nephin Hall, Hopkins Road, Castlebar, County Mayo, F23 FP97, Ireland.



The mark in use is/will be in the colour(s) orange, pink, blue, black, white



273378 18 July 2025

Class 39. Transportation logistics.

Halil Arslan, Apartment 15 / A Block, 90-97 Cork Street, Dublin 8 D08 K5F3, Ireland. Address for service is c/o Halil Arslan, Apartment 15 / A Block, 90-97 Cork Street, Dublin 8 D08 K5F3, Ireland.

The mark in use is/will be in the colour(s) Navy blue, Orange and White



273379 06 June 2025

Class 44. Manicure services; Manicure and pedicure services; Home-visit manicure services; Beauty salons; Beauty care.

Anne Lima Nails & Beauty, Claregate St, Kildare R51Y243, Ireland. Address for service is c/o Anne Lima Nails & Beauty, C/o Anne Lima da Silva, 343 Morell Avenue, Naas, Kildare W91DYK7, Ireland.

## Amraya Tea

273380 29 June 2025

Class 30. Herbal teas; non-medicinal herbal infusions; ayurvedic tea blends; caffeine-free tea-based beverages; dried fruit-infused herbal teas; spice-based tea preparations; loose leaf herbal teas; wellness teas; pyramid tea bags containing blended herbs, flowers, spices and fruits; all included in Class 30.

Swetha Chandraprakash Prajapati, 50 Mount Suir, Gracedieu Road, Waterford X91R7TV, Ireland. Address for service is c/o Swetha Chandraprakash Prajapati, 50 Mount Suir, Gracedieu Road, Waterford X91R7TV, Ireland.

## Beacon Brain Institute

273381 16 July 2025

Class 44. Neurosurgical and neuroscience services including neurosurgery, neurology, neurophysiology, diagnostic neuroradiology, interventional neuroradiology and neuro-oncology including stereotactic radiosurgery and each of the following in relation to the aforesaid: hospital services, telemedicine services, medical clinic services, aesthetician services, diagnosis of visual processing disorders, drug screening for medical diagnosis and treatment, health assessment services, health care services, medical assistance, medical examination, medical analysis services for diagnostic and treatment purposes provided by medical laboratories, medical screening, medical treatment using cultured cells, pathological examination for medical diagnosis and treatment, pathological testing for diagnostic and treatment purposes, pharmacy advice, preparation of prescriptions by pharmacists, regenerative medicine services, health centre services, nursing - medical, x-ray examinations for medical purposes, medical laboratory services for the analysis of blood samples taken from patients, providing physical rehabilitation facilities, medical treatment services provided by clinics and hospitals, medical analysis

services relating to the treatment of persons, providing health care information by telephone.

Beacon Hospital Sandyford Limited, Sandyford, Dublin 18 D18 AK68, Ireland. Address for service is c/o Arthur Cox LLP, Ten Earlsfort Terrace, Dublin 2 D03 T380, Ireland.

## JEFFERSON PAYROLL

273382 04 July 2025

Class 35. Payroll processing services (for others); preparation of payrolls (for others); payroll preparation; payroll assistance; administration of business payroll for others; data processing services in the field of payroll.

Jefferson Payroll Ltd, Beaver House, Beech Hill, Clonskeagh, Dublin 4, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.



273383 20 March 2025

Class 9. Apparatus and instruments for conducting, switching, converting, storing, regulating or controlling the distribution or utilisation of electricity; apparatus and instruments for conducting, switching, converting, storing, regulating or control of the distribution or use of energy; high-voltage, medium voltage and low-voltage circuit breakers and switchgear; electrical switchgear cabinets; electrical switchgear systems; electrical switchgear and control cabinets; electrical charging stations for electric vehicles and rail vehicles; electrical equipment and instruments for controlling the charging process of electric vehicles and rail vehicles; electric and electronic devices and components thereof for inductive power transmission for electric vehicles and rail vehicles; frequency converters; high voltage direct current transmission equipment; electric current rectifiers; inverters [current]; control equipment and devices for switching and network control; current transformers; current cables and lines; electronic power and torque measuring instruments; electronic load indicating instruments; electronic equipment, namely, high-voltage bushings for use with transformers; service equipment and machinery for power stations, namely pipe testing equipment; equipment for non-destructive testing of materials in power stations, eddy current testing equipment, ultrasonic testing equipment, leak detection

equipment; apparatus for process engineering, namely, flow meters, pressure gauges, regulators, actuators; electronic control systems; suppression equipment; electrical and electronic devices and equipment for process control engineering; electronic control systems; electronic measuring equipment; electric cables; emergency power supply devices; sensors; electric batteries, electric accumulators; fuel cells; semiconductors; semiconductor chips; data acquisition, processing, switching, storage and output devices, namely computers, central processing units, and workstations; fibre optic cables; fibre optic communication apparatus; network hubs; networking software; network routers; communication networks; fibre optic communication networks; fibre optic modems; fibre optic receptors; telecommunications apparatus and instruments and parts and fittings therefor; apparatus for capturing, counting, collecting, storing, converting, processing, entering, broadcasting and transmitting data, information and signals; computer software, computer hardware and computer peripherals; VPN [virtual private network] operating hardware; WAN [wide area network] operating hardware; LAN [local area network] operating hardware; communications and networking software; scientific, nautical, surveying, photographic, cinematographic, optical, weighing, measuring,

signalling, checking (supervision), and teaching apparatus and instruments; apparatus for recording, transmission or reproduction of sound and video and transmitting sound and video information and images and encoded data; electrical or electronic apparatus and instruments, all for processing, logging, storing, transmission, reception, display and printout of data; electrical or electronic apparatus and instruments, all for management and performance analysis of telecommunications and data communications networks and circuits; electrical or electronic apparatus and instruments, all for transmitting, displaying, receiving, storing and searching electronic information; electrical or electronic apparatus and instruments, all for interrogating answering machines and accessing telephone services; electrical and electronic apparatus, instruments, circuits and components, all for use with computers, data processing apparatus and with communications networks and installations; radio and television apparatus and instruments, all for reception and transmission; aerials; communications apparatus and instruments; telecommunications, signalling and checking apparatus and instruments; apparatus for capturing, counting, collecting, storing, converting, processing, entering, broadcasting and transmitting data, information and signals; electrical and electronic communications apparatus and equipment;

telecommunications apparatus for use with mobile networks; data communications apparatus; mobile data communications apparatus; satellite transmitters and receivers; radio-telephone apparatus and instruments; computers; computer hardware, computer firmware; computer peripherals; computer apparatus and instruments; data-bearing record carriers for computers; peripheral equipment for computers; computerised personal organisers; key boards; modems; optical and electro-optical apparatus and instruments; electrical and electronic accessories and peripheral equipment designed and adapted for use with computers, audio-visual apparatus and electronic games equipment and apparatus for use with a monitor or television receiver; image or sound coders and decoders; terminals allowing access to several media; telecommunication, radio and television broadcasting transmitters and receivers; transmitters and receivers for digital data; telecommunications transmitters; data networks; satellites; satellite transmitters and receivers; radio-telephone apparatus and instruments; computer, data transmission and telephone terminals, among other for access to world-wide communications networks (such as the Internet) or private access networks (such as an Intranet); computer network interconnection devices (hubs, switches and routers); plugs, sockets, modems and

cables; connecting hardware for computer equipment (modems); connectors to a computer network; programmed-data- carrying electronic circuits; network cables; masts for wireless aerials; aerials, electric and data transmission cables; telecommunication networks; ethernet cables; ethernet hardware; networking and data communications equipment; communications network monitoring and testing apparatus and instruments; message transmission equipment, computers for the processing of data and text, computer terminals, video screens, connectors for linking microcomputer terminals to public and private networks; video servers, computer software for the continuous transmission of images, sounds, films, videos, information and data; audiovisual apparatus; visual display units; computer, data transmission and telephone terminals, among other for access to world-wide communications networks (such as the Internet) or private access networks (such as an Intranet); computer programs; computer software; computer software applications [downloadable]; computer software for wireless network communications; telecommunications software; computer programs and software for designing, managing, operating and securing local and wide area telecommunications networks; communications and networking software; computer database servers; computer software in the fields of wireless communication, mobile

information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices; computer software to enable or facilitate the creating, editing, uploading, downloading, accessing, viewing, posting, displaying, tagging, blogging, streaming, linking, annotating, indicating sentiment about, commenting on, embedding, transmitting, and sharing or otherwise providing electronic media or information via computer and communication networks; computer software providing access to an online or virtual community for users to engage or participate in interactive discussions via communication networks, including to get feedback from their peers, seek user support, and engage in social, business and community networking; electronic publications (downloadable) provided on-line from computer databases or the Internet; mobile data communications apparatus; telephones, mobile telephones and telephone handsets; mobile phones and cell phones; accessories for telephones and telephone handsets; adapters for use with telephones; battery chargers for use with telephones; telecommunications devices; hands free kits for phones; discs, tapes and wires all being magnetic data carriers, electro-magnetic, optical and electro-optical data carriers, or encoded data; blank and pre-recorded magnetic cards; compact discs [read only memory]; magnetic, digital and optical data recording and storage media (blank and

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|           | <p>pre-recorded); magnetic tapes; magnetic data carriers; USB flash drives; blank and prerecorded magnetic cards; memory cards; smart cards [integrated circuit cards]; electronic identification cards; remote access apparatus and instruments for on-line transmission of information; VPN [virtual private network] operating software; WAN [wide area network] operating software; LAN [local area network] operating software; telecommunications, signalling and checking apparatus, instruments and circuits; data processing apparatus; printed circuits; printed circuit boards; cards containing microprocessors; sound, text and graphics delivered in electronic form; information provided in electronic form; sound recordings and video recordings; sound and video recording media; video games; racks and cases, all adapted to hold recordings or to hold tapes; exposed cinematographic and photographic films; photographic slide transparencies; photographic, cinematographic or video equipment; television apparatus and instruments; and parts and fittings for all the aforesaid goods.</p> | <p>administration; office functions; employment agencies; provision of business information; compilation of information into computer databases; rental of advertising space; accounting services; marketing studies; opinion polling; demonstration of goods; direct mail advertising; management consultancy services; publicity services; transcription services; sales promotion for others; word processing services; telephone answering for unavailable subscribers; business enquiries; professional business consultancy; data search; the bringing together, for the benefit of others, of tapes, records, compact discs, videos, digital video discs, apparatus and instruments, all for recording, reproduction and transmitting sound, or video information, video recordings, CD roms, video games, telephonic apparatus and instruments, telecommunication equipment, mobile phones, mobile phone accessories, photographic equipment, cinematographic apparatus, data processing equipment and computers, computer software, radio and television apparatus, sound and video recordings, electronic games, electronic amusement apparatus, computer games, tapes, cases, bags, holdalls, carriers and containers all adapted for carrying or storing any of the aforesaid goods, parts and fittings for the aforesaid goods, jewellery, watches and key rings, printed matter, photographs, posters, calendars, magazines, printed</p> |
| Class 17. | <p>Insulating materials; insulators; electrical insulating materials; electrical insulators; ceramic electrical insulators; rubber electrical insulators; dielectrics (insulators); insulating paper; insulating splice covers for electrical cables; and insulating sleeves for power lines.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Class 35. | <p>Advertising; business management; business</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>publications, mugs, clothing, footwear and headgear, handheld video and computer games and cuddly toys, enabling customers to conveniently view and purchase those goods through physical retail outlets and Internet sites; retail and online retail services connected with the sale of telecommunications equipment, apparatus and services; provision of price information relating to the supply of telecommunications equipment, apparatus and services; business advice and analysis services relating to telecommunications equipment, apparatus and services; business information services relating to telecommunications equipment, apparatus and services; analysis of costs relating to telecommunications equipment, apparatus and services; and analysis of market research data relating to telecommunications equipment, apparatus and services.</p> | <p>including telecommunication and electronic communication and broadband communication networks and all infrastructures in particular for access to the internet or local networks and computers; on-site commissioning of equipment for telecommunications, data processing, computer or telecommunications networks and access to the internet or local networks; installation, assembly, maintenance, supervision and repair of power generation, transmission and distribution, electrical, electronic, computer and mechanical engineering equipment, products and facilities; laying cables; construction and maintenance of pipelines; installation, maintenance and repair of energy converters, power station, wave energy converters and wave energy power stations; installation, construction, maintenance, repair and servicing of equipment and devices for power and energy generation; installation, maintenance and repair of solar energy equipment for power generation; underwater construction; services for charging batteries for electric vehicles and rail vehicles; construction, maintenance and repair of charging stations for electric vehicles and rail vehicles; and advisory, information and consultancy services relating to all the aforementioned.</p> |
| Class 37. | <p>Construction, installation, maintenance and repair services, all for computer hardware, cabling, fibre optic cabling, communication networks including telecommunication and electronic communication networks, fibre optic networks, full fibre network infrastructure, fibre optic cables, telecommunications installations, communications apparatus, machinery and instruments; broadband internet installation, maintenance and repair services; supervision [management] of construction works for communications networks,</p>                                                                                                                                                                                                                                                                                                                                 | <p>Class 38. Telecommunications services; telecommunications information services; fibre-optic network services; communications via computer terminals or via fibre-optic networks; fibre</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

optic telecommunication services; broadband internet services; provision of telecommunications access and links to computer databases and to the Internet; providing of access by computer and by communication networks, including the internet, to databases, texts, electronic documents and audiovisual information; management and operation of fibre optic networks for others; reception, transmission and broadcasting of data, signals, messages, sounds and images via electronic means, and in particular via telecommunications networks, via computer terminals, via mobile telephone networks and via wireless networks including WIFI using encrypted connections; telecommunications services, in particular, electronic transmission of electronic media, data, messages, graphics, images, audio, video and information; message sending; streaming of data; downloading of data; providing telecommunications connections to a global computer network; telecommunications, communications, telephone, facsimile, telex, message collection and transmission and electronic mail services; transmission and reception of data and of information; transmission of voice, data, images, audio, video, and information via telephone, television, radio or the Internet; electronic message delivery services; communications by telephone; communications by mobile telephone; communications by

computer terminals; communications access and links to computer data bases; communications by fibre optic networks; computer aided transmission of voice, data, audio, video, text and graphics; transmission of electronic mail; transmission of digital files; transmission of information contained in data banks and picture banks; dissemination of information by electronic means, notably for worldwide communications networks (such as the Internet) or private or restricted access networks (such as an Intranet); providing user access to global computer networks; videoconferencing services; voice mail services; instant messaging services; voice over internet protocol (VOIP) services; web messaging; secure email and instant messaging services; secure transmission of data, sound or images; provision of wireless application protocol services including those utilising a secure communications channel; rental of telecommunications equipment; telecommunications routing and junction services; telecommunication of information (including web pages), computer programs and any other data; providing telecommunications connections to the Internet or databases; data transmission, in particular packet transmission of information and images, multimedia data transmission; internet access services; providing internet access; providing user access to global computer networks; internet provider services; internet service providers; internet based telecommunication services;

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|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>providing access to the internet; transmission of data via the internet; communications services provided over the internet; providing telecommunications access to the internet; rental of access time to global computer networks; computer aided transmission of messages and images; communication by computer; hire, leasing or rental of apparatus, instruments, installations or components for use in the provision of the aforementioned services; on-line information services relating to telecommunications; electronic bulletin board services [telecommunications services]; data interchange services; teleconferencing services; telephone services; satellite communication services; broadcasting or transmission of radio or television programmes; broadcasting services; videotext, teletext and viewdata services; video messaging services; video conferencing services; video telephone services; provision and operation of electronic conferencing, discussion groups and chat rooms; provision of access to an electronic on-line network for information retrieval; leasing of access time to a computer database; and advisory, information and consultancy services relating to all the aforementioned.</p> | <p>communications networks and systems, computer programming, computer software and information systems and network analysis; technical studies, analysis and diagnostics for the setting up and installation of fibre optics, electronic communication and telecommunications networks; scientific, industrial and technological services and research and design, all the aforesaid services being in the field of fibre optic, telecommunications and electronic communications networks; technical design and development of telecommunication equipment and networks; research in the field of telecommunications technology; technical consultancy relating to the choice and implementation of computer and telecommunications equipment; testing, analysis and monitoring of telecommunication signals; services of network engineers including consulting in the field of computer and network security; scientific and industrial research in the field of network technology; installation of Internet access software; maintenance of software for Internet access; recovery of computer data; installation of computer software; maintenance of computer software; maintenance, updating and design of computer software and programs; computer software design; computer technology consultancy; computer security consultancy; computer programming services; conversion of data or</p> |
| Class 41. | Technical consultancy and training relating to computers and computer programs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Class 42. | Surveying services in relation to installation of fibre optic and communication networks; testing services relating to fibre optic networks,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

documents from physical to electronic media; data conversion of computer programs and data [not physical conversion]; design planning; technical project planning and related consulting; conducting technical project studies; consultancy and construction drafting; technical research and technical project studies; technical support services relating to computer hardware, telecommunications hardware, telecommunications and electronic communications networks, computer programs and software for the management, operation, maintenance, supervision and security of telecommunications or electronic communications networks; materials testing; software as a service [SaaS]; software as a service (SaaS) services featuring software for secure network operations; application service provider (ASP); application service provider (ASP) services, namely, providing, hosting, managing, developing, and maintaining applications, software, web sites, and databases in the fields of wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices; surveying services in relation to installation of electrical infrastructure; scientific, industrial and technological services and research and design services in the field of products, services and solutions for the energy sector, with emphasis on

electrical infrastructure; engineering services in the field of products, services and solutions for the energy sector, with a focus on electrical infrastructure; physical research in the field of products, services and solutions for the energy sector, with emphasis on electrical infrastructure; preparation of technical reports; engineering work including engineering consulting, especially consulting in the field of technical security; featuring software to enable or facilitate the creating, editing, uploading, downloading, accessing, viewing, posting, displaying, tagging, blogging, streaming, linking, annotating, indicating sentiment about, commenting on, embedding, transmitting, and sharing or otherwise providing electronic media or information via computer and communication networks; providing temporary use of online non-downloadable software and applications for instant messaging, voice over internet protocol (VOIP), video conferencing, and audio conferencing; computer services; computer services, namely, creating an online or virtual community for users to engage or participate in interactive discussions via communication networks, including to get feedback from their peers, seek user support, and engage in social, business and community networking; computer services, namely, hosting electronic facilities for others; electronic storage services for information from searchable indexes and

databases of information, including text, electronic documents, databases, graphics, electronic media, photographic images and audio visual information, on computer and communication networks; computer project management in the field of electronic data processing (EDP); electronic data back-up; providing computer back-up programs and facilities; electronic data storage and data back-up facilities; information concerning the aforesaid provided online from a computer data base or from the Internet; providing access to computer data bases; compilation of web sites and web pages; and information, consultancy and advisory services relating to all the aforesaid services.

Priority Date Claimed: 11 March 2025 United Kingdom

Fibrus Ltd, 108-113 Dargan Crescent, Belfast, Northern Ireland BT3 9JP, Ireland. Address for service is c/o Erikas Saukalas, METIDA Ltd., Gynejų street 16, 01109 Vilnius, Lithuania.

## MERCY MOUNTHAWK

273384 18 June 2025

Class 25. School uniforms; clothing; coats; sports jackets; shirts; sweat shirts; sports clothing; sports bibs; socks; headgear; footwear; swimming suits; swimming caps.

Class 41. School services; educational services; secondary school educational services; provision of training and cultural activities; provision of educational, instructional and training courses; organisation and conducting of after-school groups for education, entertainment or recreational purposes; organisation and conducting of homework clubs and academic monitoring for children; provision of homework assistance; design of and setting standards for educational courses, examinations and qualifications; conducting of educational courses; provision of educational examinations and tests; teaching services; publication of instructional and educational materials; arranging of presentations, award ceremonies, conferences, seminars, demonstrations, displays, exhibitions, competitions, presentations, events and workshops for cultural, educational, sporting or entertainment purposes; provision of courses in remedial tuition, extra tuition or exam preparation; provision of distance learning facilities; recreational services; entertainment services; sporting activities; sports coaching; sports education services; hire of sports facilities; rental of sports equipment and apparatus; sport camp services; holiday camp services; sports club services; vocational guidance; library services; theatre performances; music performances; provision of entertainment, sporting and cultural services for charitable events; publication

of educational material;  
organisation of sporting,  
entertainment, education and  
cultural activities.

Board of Management of Mercy Secondary School,  
Mounthawk, Mercy Mounthawk School, Tralee,  
Kerry, Ireland. Address for service is c/o Hazel  
McDwyer, Mason Hayes & Curran LLP, South Bank  
House, Barrow Street, Dublin 4, Ireland.

### Application(s) Withdrawn after Advertisement under the 1996 Act

272469 Trent Maglaque

### Trade Marks Registered under the 1996 Act

272242 (2540) Cl. 29 30. PRM Brands LTD  
272302 (2540) Cl. 29 30. PRM Brands Ltd  
272457 (2542) Cl. 9 38 41. Victoria Gwynne  
272479 (2542) Cl. 43. PLL Property & Leisure  
Limited  
272516 (2543) Cl. 32. David McHugh  
272521 (2543) Cl. 7 9 11 37. Solmatix Ltd  
272541 (2543) Cl. 9 36 38 41 45. Imelda  
McAloon  
272543 (2543) Cl. 3 5. easyGroup Limited  
272564 (2543) Cl. 11 20. The Tap Shop  
272566 (2543) Cl. 32. Britvic Ireland Limited  
272567 (2543) Cl. 9 42. Anne Parle  
272577 (2543) Cl. 25 35. Simone O Shaughnessy  
272590 (2544) Cl. 35 39. DCS GROUP (UK)  
LIMITED  
272593 (2544) Cl. 9 32 33 35. Mr Marc  
Simmonds & Mr Paddy Morgan  
272606 (2544) Cl. 35 39 43. Tempside Limited  
272607 (2544) Cl. 11 20 21. The Tap Shop  
Limited  
272620 (2544) Cl. 28. Spillfabrikken AS  
272622 (2544) Cl. 7 12 37 44. RT SALES  
LIMITED  
272630 (2544) Cl. 35. James Noctor  
272643 (2544) Cl. 35 39. DCS GROUP (UK)  
LIMITED  
272648 (2544) Cl. 6. Katy Graepel

272670 (2545) Cl. 9. Hangzhou Maxge  
Intelligent Electric Co., Ltd  
272686 (2545) Cl. 21. Tania Francisca Celis  
Vásquez  
272689 (2545) Cl. 32. Lucozade Ribena Suntory  
Limited  
272690 (2545) Cl. 32. Lucozade Ribena Suntory  
Limited  
272693 (2545) Cl. 32. Lucozade Ribena Suntory  
Limited  
272694 (2545) Cl. 41. The Trustees for the time  
being of the Royal St George Yacht Club  
272704 (2546) Cl. 9 16 20 29 30 31 32 33 35 39  
41 43 44. Miles-Bramwell Executive  
Services Limited  
272706 (2546) Cl. 25. Kevin Merrick  
272707 (2546) Cl. 5. PINWOOD  
LABORATORIES LIMITED  
272709 (2546) Cl. 30. Arlene Hopkins  
272710 (2546) Cl. 28 41. Roisin Helen McDaid  
272712 (2546) Cl. 9 41. Ladbrokes Betting &  
Gaming Limited  
272715 (2546) Cl. 43. SHASHIDHAR REDDY  
AMANAGANTI  
272717 (2546) Cl. 9 35 42. IBEC COMPANY  
LIMITED BY GUARANTEE  
272720 (2546) Cl. 36. Oli Cavanagh  
272721 (2546) Cl. 30 31 40. Malting Company  
of Ireland Ltd  
272723 (2546) Cl. 29 30. PRM Brands LTD  
272728 (2546) Cl. 42. John Hennessy  
272730 (2546) Cl. 10 44. Hiltattum Limited  
272731 (2546) Cl. 37. Grant Watters  
272735 (2546) Cl. 35. Louise Slevin  
272737 (2546) Cl. 5. University College Cork,  
National University of Ireland, Cork  
272738 (2546) Cl. 20 24. Michael Murphy & Co  
Ltd  
272739 (2546) Cl. 44. Cesar Miguel Garcia Sosa  
272740 (2546) Cl. 9 35 42. Franklin Obi  
272742 (2546) Cl. 35 36 37 39 40. DID  
Electrical Appliances Limited  
272744 (2546) Cl. 35 44. HCCI HOME AND  
COMMUNITY CARE IRELAND  
COMPANY LIMITED BY  
GUARANTEE  
272745 (2546) Cl. 3. Poseidon Hair Limited  
272749 (2546) Cl. 9 38 41. Home Box Office,  
Inc.  
272750 (2546) Cl. 7. Avenue, a Nolato Company  
272751 (2546) Cl. 9 16 39. National Transport  
Authority  
272752 (2546) Cl. 9 16 39. National Transport  
Authority

## Renewal of Registrations Under Section 48 of the 1996 Act

|        |                                                                                          |
|--------|------------------------------------------------------------------------------------------|
| 48255  | Cl. 30. SOCIÉTÉ DES PRODUITS NESTLÉ S.A.                                                 |
| 48337  | Cl. 33. Grahams (Oporto) Limited                                                         |
| 48844  | Cl. 12. Fiat Group Marketing & Corporate Communication S.p.A.                            |
| 54966  | Cl. 7. Archer Well Company Inc.                                                          |
| 66403  | Cl. 6. Cryovac, Inc.                                                                     |
| 77072  | Cl. 22. Wellman International Limited                                                    |
| 77190  | Cl. 5. Cheplapharm Arzneimittel GmbH                                                     |
| 77252  | Cl. 5. Cheplapharm Arzneimittel GmbH                                                     |
| 77370  | Cl. 1. Bostik Limited                                                                    |
| 113269 | Cl. 5. Nufarm B.V.                                                                       |
| 113420 | Cl. 5. LABORATOIRE MEDIDOM S.A.                                                          |
| 114715 | Cl. 9. INTUITION PUBLISHING LIMITED                                                      |
| 114716 | Cl. 16. INTUITION PUBLISHING LIMITED                                                     |
| 114808 | Cl. 17. The Lycra Company UK Limited                                                     |
| 115937 | Cl. 9. Hager Electro GmbH & Co. KG                                                       |
| 118695 | Cl. 9. Ellenberger & Poensgen GmbH                                                       |
| 232672 | Cl. 16, Cl. 20. Smurfit Kappa Services Limited                                           |
| 232995 | Cl. 39. MICHAEL FORRISTAL                                                                |
| 233180 | Cl. 25. HIGH & MIGHTY LTD                                                                |
| 233651 | Cl. 35, Cl. 40, Cl. 42. PETER O FLAHERTY                                                 |
| 233760 | Cl. 5, Cl. 29. Société des Produits Nestlé S.A.                                          |
| 233791 | Cl. 5. ROWEX LTD.                                                                        |
| 233844 | Cl. 25, Cl. 26, Cl. 35, Cl. 36, Cl. 45. SLATER MENSWEAR                                  |
| 233846 | Cl. 25, Cl. 26, Cl. 35, Cl. 36, Cl. 45. SLATER MENSWEAR                                  |
| 234008 | Cl. 16, Cl. 35. Eason Operations Limited                                                 |
| 234663 | Cl. 5. Ascensia Diabetes Care Holdings AG                                                |
| 236924 | Cl. 35. HEATONS LIMITED                                                                  |
| 246041 | Cl. 25. OLYMP Bezner KG                                                                  |
| 246113 | Cl. 9, Cl. 16. AUTODESK INC.                                                             |
| 253981 | Cl. 36. State Street Corporation                                                         |
| 254016 | Cl. 41. National University of Ireland, Maynooth                                         |
| 254036 | Cl. 4, Cl. 16, Cl. 20, Cl. 21, Cl. 24, Cl. 35. MOMENTUM PARTNERS SALES PROMOTION LIMITED |
| 254038 | Cl. 2, Cl. 11, Cl. 16, Cl. 20, Cl. 31. ARGOS LIMITED                                     |
| 254085 | Cl. 1, Cl. 31. Openfolde Limited                                                         |
| 254095 | Cl. 31. SOCIÉTÉ DES PRODUITS NESTLÉ S.A.                                                 |
| 254098 | Cl. 11, Cl. 16, Cl. 20, Cl. 21, Cl. 35. Uppercross Enterprises Limited                   |

|        |                                                                              |
|--------|------------------------------------------------------------------------------|
| 254140 | Cl. 41. CAPERNAUM LIMITED                                                    |
| 254184 | Cl. 41. Vincent O'Brien & John Mc Fadden                                     |
| 254194 | Cl. 29, Cl. 30, Cl. 43. Ms Ying Zhao                                         |
| 254199 | Cl. 41, Cl. 42, Cl. 45. COMMISSION FOR ENERGY REGULATION                     |
| 254229 | Cl. 2, Cl. 11, Cl. 16, Cl. 20, Cl. 21, Cl. 24, Cl. 27, Cl. 31. ARGOS LIMITED |
| 254318 | Cl. 35. SHAWNA SCOTT                                                         |
| 254369 | Cl. 29. Poultry Partners Holding N.V.                                        |
| 254374 | Cl. 41. THE BUSINESSLIKE CORPORATION LIMITED                                 |
| 254436 | Cl. 9, Cl. 16, Cl. 41, Cl. 44. Laya Healthcare Limited                       |
| 254444 | Cl. 35, Cl. 41. Aegis Trademarks BV                                          |
| 254673 | Cl. 5. Sandoz AG                                                             |
| 255154 | Cl. 35, Cl. 36. Dermot O'Malley                                              |
| 256225 | Cl. 9, Cl. 16, Cl. 41, Cl. 44. Laya Healthcare Limited                       |
| 256245 | Cl. 1, Cl. 5, Cl. 29, Cl. 32. Kerry Group Services International Limited     |
| 256952 | Cl. 9, Cl. 35, Cl. 36, Cl. 42. Thomson Reuters Enterprise Centre GmbH        |
| 257640 | Cl. 25, Cl. 41. Principal for the time being of Alexandra College            |

## Renewal Fees unpaid at date of expiry of Registration or renewal thereof - Rule 39(1) of the 1996 Rules

|       |                                                                   |
|-------|-------------------------------------------------------------------|
| 48031 | Cl. 3. 14 September 2025. Unilever Global IP Limited              |
| 48098 | Cl. 33. 02 September 2025. Irish Distillers International Limited |
| 48238 | Cl. 33. 18 September 2025. Irish Distillers International Limited |
| 49117 | Cl. 9. 04 September 2025. Siemens Mobility Limited                |
| 66051 | Cl. 5. 01 September 2025. Boehringer Ingelheim Vetmedica GmbH     |
| 66056 | Cl. 23. 09 September 2025. DuPont Safety & Construction, Inc.     |
| 66196 | Cl. 23. 26 September 2025. SPINNEREI LAMPERTSMUHLE AG             |
| 66198 | Cl. 25. 26 September 2025. SPINNEREI LAMPERTSMUHLE AG             |
| 66350 | Cl. 7. 27 September 2025. UNION SPECIAL, LLC                      |
| 66768 | Cl. 3, Cl. 5. 18 September 2025. Colgate-Palmolive Company        |
| 77122 | Cl. 24. 10 September 2025. LISSADELL TOWELS LIMITED               |
| 77310 | Cl. 5. 10 September 2025. MADAUS GmbH                             |

|               |                                                                                   |               |                                                                                                           |
|---------------|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------|
| <b>77582</b>  | Cl. 3. 13 September 2025. Colgate-Palmolive Company                               | <b>232613</b> | Cl. 5. 05 September 2025. Bayer Intellectual Property GmbH                                                |
| <b>78006</b>  | Cl. 5. 03 September 2025. Bayer Healthcare LLC                                    | <b>232629</b> | Cl. 5. 14 September 2025. Bayer ConsumerCare AG                                                           |
| <b>78793</b>  | Cl. 33. 23 September 2025. SAZERAC UK LIMITED                                     | <b>232636</b> | Cl. 33. 01 September 2025. Australian Legend Wines Pty Ltd.                                               |
| <b>78838</b>  | Cl. 3. 14 September 2025. COLGATE-PALMOLIVE COMPANY                               | <b>232659</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>78919</b>  | Cl. 8. 23 September 2025. SWAGELOK COMPANY                                        | <b>232660</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>79022</b>  | Cl. 9. 13 September 2025. ELDON HOLDING AKTIEBOLAG                                | <b>232661</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>82871</b>  | Cl. 5. 10 September 2025. MAD AUS GmbH                                            | <b>232666</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>112653</b> | Cl. 5. 16 September 2025. BOEHRINGER INGELHEIM INTERNATIONAL GMBH                 | <b>232678</b> | Cl. 5. 21 September 2025. Reckitt Benckiser Health Limited                                                |
| <b>112657</b> | Cl. 5. 30 September 2025. GLAXOSMITHKLINE BIOLOGICALS MANUFACTURING S.A.          | <b>232679</b> | Cl. 10. 21 September 2025. JOHNSON & JOHNSON                                                              |
| <b>113187</b> | Cl. 19. 16 September 2025. VENCEL RESIL LIMITED                                   | <b>232692</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>113511</b> | Cl. 12. 16 September 2025. NISSAN JIDOSHA KABUSHIKI KAISHA NISSAN MOTOR CO., LTD. | <b>232696</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>113817</b> | Cl. 3. 19 September 2025. Unilever Global IP Limited                              | <b>232698</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>114599</b> | Cl. 34. 17 September 2025. Philip Morris Brands Sàrl                              | <b>232701</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                      |
| <b>114798</b> | Cl. 5. 24 September 2025. Galderma Holding SA                                     | <b>232721</b> | Cl. 5, Cl. 16, Cl. 41. 13 September 2025. Bristol-Myers Squibb Holdings Ireland Unlimited Company         |
| <b>115554</b> | Cl. 34. 16 September 2025. British American Tobacco (Brands) Inc.                 | <b>232736</b> | Cl. 29. 13 September 2025. Clona West Cork Foods Limited                                                  |
| <b>116266</b> | Cl. 12. 02 September 2025. NISSAN JIDOSHA KABUSHIKI KAISHA                        | <b>232769</b> | Cl. 20, Cl. 40. 01 September 2025. KINGSPAN GROUP PLC                                                     |
| <b>116267</b> | Cl. 12. 02 September 2025. NISSAN JIDOSHA KABUSHIKI KAISHA                        | <b>232787</b> | Cl. 5. 26 September 2025. Solventum Intellectual Properties Company                                       |
| <b>232570</b> | Cl. 16. 01 September 2025. Independent Newspapers (Ireland) Limited               | <b>232816</b> | Cl. 9, Cl. 37, Cl. 38. 14 September 2025. TETRA COMMUNICATIONS IRELAND LIMITED                            |
| <b>232586</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>232832</b> | Cl. 33. 28 September 2025. SUR ANDINO S.A.                                                                |
| <b>232587</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>232939</b> | Cl. 29, Cl. 30. 25 September 2025. Kraft Foods UK Intellectual Property Limited                           |
| <b>232588</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>232956</b> | Cl. 25. 26 September 2025. EUROLAND FOOTWEAR LIMITED                                                      |
| <b>232590</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>232982</b> | Cl. 32, Cl. 33. 11 September 2025. BABCO EUROPE LTD.                                                      |
| <b>232591</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>232998</b> | Cl. 43. 22 September 2025. Waterford Hospitality Limited                                                  |
| <b>232594</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>233005</b> | Cl. 35, Cl. 39. 19 September 2025. Robert Roberts Limited                                                 |
| <b>232595</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              | <b>233085</b> | Cl. 16, Cl. 36. 18 September 2025. THE DIRECTOR FOR THE TIME BEING OF THE ORDER OF MALTA AMBULANCE CORPS. |
| <b>232596</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                              |               |                                                                                                           |

|               |                                                                                                                  |               |                                                                                             |
|---------------|------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|
| <b>233088</b> | Cl. 5, Cl. 16, Cl. 36. 18 September 2025. THE DIRECTOR FOR THE TIME BEING OF THE ORDER OF MALTA AMBULANCE CORPS. | <b>253662</b> | Cl. 44. 02 September 2025. Adrienne Stewart                                                 |
| <b>233124</b> | Cl. 5. 19 September 2025. Gilead Sciences, LLC                                                                   | <b>253685</b> | Cl. 30. 06 September 2025. Glenn Moore                                                      |
| <b>233176</b> | Cl. 3. 11 September 2025. Unilever Global IP Limited                                                             | <b>253686</b> | Cl. 9. 03 September 2025. Daniel Oleskow                                                    |
| <b>233417</b> | Cl. 30. 26 September 2025. CADBURY UK LIMITED                                                                    | <b>253687</b> | Cl. 9. 03 September 2025. Daniel Oleskow                                                    |
| <b>233495</b> | Cl. 2, Cl. 7, Cl. 16, Cl. 40. 20 September 2025. Akzo Nobel Coatings International B.V.                          | <b>253694</b> | Cl. 41, Cl. 44. 09 September 2025. Ciaran Hurley, Barry Lyons, Siobhan O'Mara, Kevin Hurley |
| <b>233541</b> | Cl. 30. 26 September 2025. CADBURY UK LIMITED                                                                    | <b>253695</b> | Cl. 36. 09 September 2025. ZIPPA LIMITED                                                    |
| <b>233545</b> | Cl. 9. 26 September 2025. DOYLE & DOYLE WHOLESALE LTD                                                            | <b>253696</b> | Cl. 33. 09 September 2025. VIÑA CARMEN S.A.                                                 |
| <b>233772</b> | Cl. 5. 14 September 2025. BAYER CONSUMER CARE AG                                                                 | <b>253697</b> | Cl. 35. 09 September 2025. Sharon Yourell Lawlor                                            |
| <b>233801</b> | Cl. 29, Cl. 30. 08 September 2025. CADBURY UK LIMITED                                                            | <b>253698</b> | Cl. 35, Cl. 41, Cl. 42. 09 September 2025. Marine Applications Ltd                          |
| <b>233825</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                             | <b>253699</b> | Cl. 35, Cl. 36, Cl. 41. 09 September 2025. EBK Consulting LTD                               |
| <b>233938</b> | Cl. 29, Cl. 30. 19 September 2025. SEAN LOUGHNANE (GALWAY) LIMITED                                               | <b>253705</b> | Cl. 5, Cl. 29. 04 September 2025. Société des Produits Nestlé S.A                           |
| <b>234139</b> | Cl. 16, Cl. 35, Cl. 41, Cl. 42. 20 September 2025. THE INSTITUTION OF ENGINEERS OF IRELAND (ENGINEERS IRELAND)   | <b>253708</b> | Cl. 21. 10 September 2025. ROBERT SCANLAN                                                   |
| <b>234321</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                             | <b>253711</b> | Cl. 30. 14 September 2025. GEORGE MCGEE                                                     |
| <b>234557</b> | Cl. 3. 05 September 2025. Unilever Global IP Limited                                                             | <b>253713</b> | Cl. 4. 14 September 2025. ANDREW MC LAUGHLIN & SONS LTD                                     |
| <b>234745</b> | Cl. 41, Cl. 43. 14 September 2025. MAURICE GILLEN                                                                | <b>253715</b> | Cl. 9. 14 September 2025. Terry Madigan                                                     |
| <b>235176</b> | Cl. 35, Cl. 39. 19 September 2025. Robert Roberts Limited                                                        | <b>253717</b> | Cl. 2. 14 September 2025. Akzo Nobel Coatings International B.V.                            |
| <b>235797</b> | Cl. 9, Cl. 16, Cl. 35. 18 September 2025. MYOB TECHNOLOGY PTY LTD                                                | <b>253718</b> | Cl. 41. 15 September 2025. SHANE KIRWAN                                                     |
| <b>236373</b> | Cl. 3, Cl. 5, Cl. 9, Cl. 16, Cl. 44, Cl. 45. 11 September 2025. THE ROYAL COLLEGE OF MIDWIVES                    | <b>253720</b> | Cl. 2. 14 September 2025. Akzo Nobel Coatings International B.V.                            |
| <b>237887</b> | Cl. 29, Cl. 30, Cl. 32. 13 September 2025. Unilever IP Holdings B.V.                                             | <b>253723</b> | Cl. 29, Cl. 30, Cl. 43. 15 September 2025. Kepak Group                                      |
| <b>238127</b> | Cl. 29, Cl. 30, Cl. 32. 13 September 2025. LIWAYWAY MARKETING CORPORATION                                        | <b>253724</b> | Cl. 41. 10 September 2025. Damian O'Brien                                                   |
| <b>246855</b> | Cl. 16, Cl. 41. 08 September 2025. Independent Newspapers (Ireland) Limited                                      | <b>253725</b> | Cl. 3. 03 September 2025. COLGATE-PALMOLIVE EUROPE SÀRL                                     |
| <b>253658</b> | Cl. 41. 02 September 2025. STARBUCKS CORPORATION Starbucks Coffee Company                                        | <b>253726</b> | Cl. 3. 03 September 2025. COLGATE-PALMOLIVE EUROPE SÀRL                                     |
| <b>253659</b> | Cl. 41. 02 September 2025. Funancial Freedom Limited                                                             | <b>253731</b> | Cl. 33. 16 September 2025. Nas Nationwide agri supplies ltd                                 |
|               |                                                                                                                  | <b>253734</b> | Cl. 19. 16 September 2025. Michael Doody                                                    |
|               |                                                                                                                  | <b>253736</b> | Cl. 9. 17 September 2025. Marcio Rodrigues Prudencio                                        |
|               |                                                                                                                  | <b>253737</b> | Cl. 10. 17 September 2025. Safety Ireland First Response Limited                            |
|               |                                                                                                                  | <b>253739</b> | Cl. 39. 18 September 2025. Budget School & Group Tours                                      |
|               |                                                                                                                  | <b>253742</b> | Cl. 29. 09 September 2025. GF Oils & Sauces Ltd.                                            |

|               |                                                                  |               |                                                                       |
|---------------|------------------------------------------------------------------|---------------|-----------------------------------------------------------------------|
| <b>253746</b> | Cl. 20. 18 September 2025. Raytus Gassner                        | <b>253795</b> | Cl. 42. 23 September 2025. UBINU LIMITED                              |
| <b>253748</b> | Cl. 29. 10 September 2025. Aldi Stores (Ireland) Limited         | <b>253796</b> | Cl. 39, Cl. 43. 08 September 2025. Benedetto Macari                   |
| <b>253749</b> | Cl. 35, Cl. 39. 21 September 2025. Newsread Limited              | <b>253797</b> | Cl. 30. 08 September 2025. Aldi Stores (Ireland) Limited              |
| <b>253750</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253798</b> | Cl. 41. 26 September 2025. Saddam Hossain                             |
| <b>253751</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253799</b> | Cl. 41. 23 September 2025. BILL ROCKETT                               |
| <b>253752</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253800</b> | Cl. 44. 26 September 2025. Karina Melvin                              |
| <b>253754</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253801</b> | Cl. 25. 22 September 2025. Joyce Brereton                             |
| <b>253755</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253802</b> | Cl. 41, Cl. 43, Cl. 44. 21 September 2025. MICHEÁL O'DONOGHUE         |
| <b>253757</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253803</b> | Cl. 41, Cl. 43, Cl. 44. 21 September 2025. MICHEÁL O'DONOGHUE         |
| <b>253758</b> | Cl. 45. 15 September 2025. Rennick Solicitors                    | <b>253805</b> | Cl. 41, Cl. 43. 21 September 2025. MICHEÁL O'DONOGHUE                 |
| <b>253759</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253806</b> | Cl. 41, Cl. 43. 21 September 2025. MICHEÁL O'DONOGHUE                 |
| <b>253760</b> | Cl. 45. 15 September 2025. Rennick Solicitors                    | <b>253807</b> | Cl. 35, Cl. 41, Cl. 43, Cl. 44. 21 September 2025. MICHEÁL O'DONOGHUE |
| <b>253761</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253808</b> | Cl. 36. 23 September 2025. LEGAL & GENERAL GROUP PLC                  |
| <b>253762</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253812</b> | Cl. 29. 24 September 2025. ROBERT FOX                                 |
| <b>253763</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253816</b> | Cl. 9. 29 September 2025. V-Moda LC                                   |
| <b>253764</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253817</b> | Cl. 32. 29 September 2025. Treaty City Brewing Company                |
| <b>253765</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253821</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253766</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253822</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253767</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253823</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253768</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253824</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253769</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253825</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253770</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253826</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253778</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253827</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253779</b> | Cl. 5. 22 September 2025. Gilead Sciences Ireland UC             | <b>253828</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253783</b> | Cl. 32. 24 September 2025. Sciobdun Ltd                          | <b>253829</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253784</b> | Cl. 32. 24 September 2025. Sciobdun Ltd.                         | <b>253830</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |
| <b>253785</b> | Cl. 36. 24 September 2025. Alan Masterson                        | <b>253831</b> | Cl. 42. 29 September 2025. MEDICAL ENERGETICS LIMITED                 |
| <b>253789</b> | Cl. 9, Cl. 38. 09 September 2025. CHINA DATA ENTERPRISES LIMITED | <b>253834</b> | Cl. 5. 01 October 2025. Gilead Sciences Ireland UC                    |



**253835** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253836** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253838** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253839** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253840** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253841** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253842** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253843** Cl. 5. 01 October 2025. Gilead Sciences Ireland UC  
**253852** Cl. 21, Cl. 29, Cl. 30, Cl. 31. 03 September 2025. ODAIOS LIMITED  
**253862** Cl. 29, Cl. 30. 29 September 2025. John Lark  
**253864** Cl. 32. 14 September 2025. Joan Harrington  
**253912** Cl. 32. 14 September 2025. Joan Harrington  
**253922** Cl. 9. 29 September 2025. Richard Rodgers  
**253960** Cl. 35, Cl. 42. 21 September 2025. GLANDORE HUMAN CAPITAL SOFTWARE LIMITED  
**254012** Cl. 33. 30 September 2025. Nas Nationwide agri supplies Ltd  
**254029** Cl. 29. 18 September 2025. SEAN LOUGHNANE (GALWAY) LIMITED  
**254065** Cl. 29, Cl. 30, Cl. 32, Cl. 43. 01 October 2025. STARBUCKS CORPORATION Starbucks Coffee Company  
**254071** Cl. 3. 25 September 2025. COLGATE-PALMOLIVE EUROPE SÀRL  
**254072** Cl. 3. 25 September 2025. COLGATE-PALMOLIVE EUROPE SÀRL  
**254083** Cl. 16, Cl. 20. 29 September 2025. Ruth Wardick trading as Expressive Roots  
**254084** Cl. 16, Cl. 20. 29 September 2025. Ruth Wardick trading as Expressive Roots  
**254097** Cl. 28. 28 September 2025. Eoin Cremen  
**254147** Cl. 9, Cl. 35. 21 September 2025. TRENDY INTERNATIONAL INVESTMENT LIMITED  
**254167** Cl. 29. 15 September 2025. Dale Farm Limited  
**254196** Cl. 41. 07 September 2025. Grey Raven Records  
**254327** Cl. 41, Cl. 43. 21 September 2025. MICHEÁL O'DONOGHUE  
**254328** Cl. 41, Cl. 43. 21 September 2025. MICHEÁL O'DONOGHUE

**254336** Cl. 35, Cl. 41, Cl. 43, Cl. 44. 28 September 2025. MICHEÁL O'DONOGHUE  
**254617** Cl. 25. 25 September 2025. Sean Douglas  
**255150** Cl. 27. 18 September 2025. MICHAEL SLATTERY  
**255489** Cl. 37, Cl. 40, Cl. 42. 23 September 2025. Cantec Business Technology Ltd  
**256485** Cl. 35, Cl. 36, Cl. 42. 29 September 2025. FUNDBOX LTD.  
**256552** Cl. 3. 18 September 2025. Unilever Global IP Limited  
**256617** Cl. 35, Cl. 36. 14 September 2025. Oldfield Partners LLP  
**264236** Cl. 41, Cl. 42. 25 September 2025. Monica Loughman

### Trade Marks Removed from the Register under Section 48 and Rule 39(2) of the 1996 Act and Rules.

**47937** Cl. 6. Sandvik Intellectual Property AB  
**47938** Cl. 7. Sandvik Intellectual Property AB  
**65593** Cl. 3. Henkel AG & Co. KGaA  
**65853** Cl. 34. P.J. CARROLL & COMPANY LIMITED  
**76171** Cl. 5. AZIENDE CHIMICHE RIUNITE ANGELINI FRANCESCO - A.C.R.A.F. S.p.A.  
**76291** Cl. 5. Phoenix Labs Unlimited Company  
**76672** Cl. 1. HUNTSMAN INTERNATIONAL LLC  
**76673** Cl. 3. HUNTSMAN INTERNATIONAL LLC  
**76722** Cl. 20. Mullins of Dublin Limited  
**77152** Cl. 5. Merck Sharp & Dohme Corp.  
**77852** Cl. 7. CNH Industrial America LLC  
**110452** Cl. 1, 17. DSM IP Assets B.V.  
**110468** Cl. 17. DuPont Electronics, Inc.  
**110615** Cl. 5. Ursa SAS  
**110619** Cl. 30. HAHNTECH INTERNATIONAL LTD.  
**111175** Cl. 10. BOEHRINGER MANNHEIM CORPORATION  
**111176** Cl. 5. Atnahs Pharma UK Limited  
**111300** Cl. 30. PLAYBOY ENTERPRISES INTERNATIONAL, INC.  
**111978** Cl. 3. Jean-Charles Brosseau SAS  
**112085** Cl. 30. PLAYBOY ENTERPRISES INTERNATIONAL, INC.  
**112445** Cl. 16. CANSON  
**113459** Cl. 5. WARNER-LAMBERT COMPANY

|               |                                                                                                                                                                          |               |                                                       |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|
| <b>113609</b> | Cl. 30. PURATOS CREST FOODS LIMITED                                                                                                                                      | <b>231942</b> | Cl. 30. KELLANOVA                                     |
| <b>113611</b> | Cl. 3. WERNER & MERTZ GmbH                                                                                                                                               | <b>232276</b> | Cl. 16. EXPRESS NEWSPAPERS                            |
| <b>114352</b> | Cl. 16. Cable & Wireless U.K.                                                                                                                                            | <b>232278</b> | Cl. 16. EXPRESS NEWSPAPERS                            |
| <b>117878</b> | Cl. 3. Wella International Operations Switzerland Sàrl                                                                                                                   | <b>232575</b> | Cl. 3. THE PROCTER & GAMBLE COMPANY                   |
| <b>118095</b> | Cl. 29. SOCIETE DES PRODUITS NESTLE S.A.                                                                                                                                 | <b>233271</b> | Cl. 36. Aberdeen Corporate Services Limited           |
| <b>118096</b> | Cl. 30. SOCIETE DES PRODUITS NESTLE S.A.                                                                                                                                 | <b>235620</b> | Cl. 16. EXPRESS NEWSPAPERS                            |
| <b>118376</b> | Cl. 31. Kerry Agri Business Trading Limited                                                                                                                              | <b>240073</b> | Cl. 9, 16, 35, 36, 38, 41, 42. FCR Tech UAB           |
| <b>231476</b> | Cl. 5. BGP Products Ireland Limited                                                                                                                                      | <b>240075</b> | Cl. 9, 16, 35, 36, 38, 41, 42. FCR Tech UAB           |
| <b>231480</b> | Cl. 5. Alcon Inc.                                                                                                                                                        | <b>240076</b> | Cl. 9, 16, 35, 36, 38, 41, 42. FCR Tech UAB           |
| <b>231547</b> | Cl. 17, 19. Pipelife Norge AS                                                                                                                                            | <b>240077</b> | Cl. 9, 16, 35, 36, 38, 41, 42. FCR Tech UAB           |
| <b>231549</b> | Cl. 3, 5. TM KEIMARK COMPANY LIMITED                                                                                                                                     | <b>252488</b> | Cl. 35, 38, 41. Accenture Global Services Limited     |
| <b>231559</b> | Cl. 37, 42. TERRE ARMÉE INTERNATIONALE S.A.S.                                                                                                                            | <b>252491</b> | Cl. 41. Cherrycool Ltd                                |
| <b>231581</b> | Cl. 32. ALDI STORES (IRELAND) LIMITED                                                                                                                                    | <b>252497</b> | Cl. 41. Brian Furlong                                 |
| <b>231611</b> | Cl. 16. EXPRESS NEWSPAPERS                                                                                                                                               | <b>252498</b> | Cl. 35, 41, 45. Tara Dalrymple                        |
| <b>231613</b> | Cl. 5. Kenvue Inc.                                                                                                                                                       | <b>252499</b> | Cl. 44. Patrick Gildea                                |
| <b>231622</b> | Cl. 30. Mondelez International AMEA Pte. Ltd.                                                                                                                            | <b>252500</b> | Cl. 41. Adrian Quinn                                  |
| <b>231635</b> | Cl. 5. Actavis Group PTC ehf                                                                                                                                             | <b>252521</b> | Cl. 32. David Eaton                                   |
| <b>231638</b> | Cl. 29, 30. BATCHELORS                                                                                                                                                   | <b>252525</b> | Cl. 9. Peter Moran                                    |
| <b>231656</b> | Cl. 5. Kenvue Inc.                                                                                                                                                       | <b>252526</b> | Cl. 20. DECLAN BRENNAN                                |
| <b>231657</b> | Cl. 5. CELGENE CORPORATION                                                                                                                                               | <b>252529</b> | Cl. 45. Andy Tilleard                                 |
| <b>231659</b> | Cl. 37. CANNON HYGIENE INTERNATIONAL LIMITED                                                                                                                             | <b>252530</b> | Cl. 3. Kestutis Kunevicius                            |
| <b>231666</b> | Cl. 25. MON CHERI BRIDALS LLC                                                                                                                                            | <b>252535</b> | Cl. 25, 42. Patrick Burke                             |
| <b>231726</b> | Cl. 33. VILLIERSDORP WINERY (PTY) LTD                                                                                                                                    | <b>252538</b> | Cl. 32. David Eaton                                   |
| <b>231769</b> | Cl. 38. NEXTAG INC                                                                                                                                                       | <b>252540</b> | Cl. 5. PATRICK FOX                                    |
| <b>231782</b> | Cl. 9. LG ELECTRONICS INC.                                                                                                                                               | <b>252542</b> | Cl. 16, 39, 41. Waterford City & County Council       |
| <b>231786</b> | Cl. 16, 36. XS DIRECT HOLDINGS LIMITED                                                                                                                                   | <b>252549</b> | Cl. 8, 9, 16, 21, 29, 30. International Greetings plc |
| <b>231819</b> | Cl. 9, 36, 37. Sky Limited                                                                                                                                               | <b>252555</b> | Cl. 29, 30, 32. Morehampton Foods Limited             |
| <b>231824</b> | Cl. 30. CADBURY UK LIMITED                                                                                                                                               | <b>252556</b> | Cl. 14. ARGOS LIMITED                                 |
| <b>231825</b> | Cl. 30. CADBURY UK LIMITED                                                                                                                                               | <b>252557</b> | Cl. 39. Rory Casey                                    |
| <b>231829</b> | Cl. 29, 30, 31, 32. RICHARD AULER                                                                                                                                        | <b>252558</b> | Cl. 28, 41, 43. South Beach Pavilion Ltd              |
| <b>231842</b> | Cl. 36. The Governor and Company of the Bank of Ireland (established in Ireland by Charter in 1783 and having limited liability) doing business as Bank of Ireland Group | <b>252559</b> | Cl. 14. ARGOS LIMITED                                 |
| <b>231847</b> | Cl. 33. ARNAUD GAULTIER                                                                                                                                                  | <b>252560</b> | Cl. 3. COLGATE-PALMOLIVE COMPANY                      |
| <b>231873</b> | Cl. 36. The Governor and Company of the Bank of Ireland (established in Ireland by Charter in 1783 and having limited liability) doing business as Bank of Ireland Group | <b>252561</b> | Cl. 3. COLGATE-PALMOLIVE COMPANY                      |
| <b>231879</b> | Cl. 35. Acumen Resources Ltd                                                                                                                                             | <b>252563</b> | Cl. 5, 29. Geo-Poland sp. z o.o.                      |
| <b>231910</b> | Cl. 28, 41. SUNDAY NEWSPAPERS LIMITED                                                                                                                                    | <b>252564</b> | Cl. 10. Pdraig McAuliffe                              |
|               |                                                                                                                                                                          | <b>252566</b> | Cl. 31. JOHN MACKLE (MOY) LIMITED                     |
|               |                                                                                                                                                                          | <b>252569</b> | Cl. 43. Colum Lyons                                   |
|               |                                                                                                                                                                          | <b>252571</b> | Cl. 41. Dr Isabelle Dugast                            |
|               |                                                                                                                                                                          | <b>252573</b> | Cl. 25, 41. ZAC GLOBAL PROMOTIONS LIMITED             |
|               |                                                                                                                                                                          | <b>252576</b> | Cl. 25. Thomas Boyle                                  |
|               |                                                                                                                                                                          | <b>252577</b> | Cl. 9. Ralph Hosford                                  |
|               |                                                                                                                                                                          | <b>252579</b> | Cl. 11. Dry Planet Limited                            |

|               |                                                                |               |                                                                                  |
|---------------|----------------------------------------------------------------|---------------|----------------------------------------------------------------------------------|
| <b>252580</b> | Cl. 41, 43. Kevin Morrissey                                    | <b>252660</b> | Cl. 5. Gilead Sciences Ireland UC                                                |
| <b>252582</b> | Cl. 41. Pat McCullagh                                          | <b>252667</b> | Cl. 16. Aldi Stores (Ireland) Limited                                            |
| <b>252583</b> | Cl. 41. David Nolan                                            | <b>252668</b> | Cl. 9, 16, 41, 42. Quality and Qualifications Ireland                            |
| <b>252584</b> | Cl. 9, 16. HD Tracking Systems Ltd                             | <b>252669</b> | Cl. 31, 35, 41, 44. BRADLEY BRAND AND DESIGN LIMITED                             |
| <b>252586</b> | Cl. 30. MONDELEZ CANADA INC.                                   | <b>252670</b> | Cl. 9, 16, 41, 42. Quality and Qualifications Ireland                            |
| <b>252588</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252671</b> | Cl. 9, 16, 41, 42. Quality and Qualifications Ireland                            |
| <b>252589</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252675</b> | Cl. 35, 43. Stephen Deasy                                                        |
| <b>252591</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252677</b> | Cl. 25. Mightyfist European Distributor Ltd                                      |
| <b>252592</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252678</b> | Cl. 25. Mightyfist European Distributor Ltd                                      |
| <b>252593</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252679</b> | Cl. 41, 44. Aly Alvy                                                             |
| <b>252595</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252681</b> | Cl. 5. Gilead Sciences Ireland UC                                                |
| <b>252597</b> | Cl. 41. SIMON IAN HILL                                         | <b>252682</b> | Cl. 9. NOVA BROADBAND LTD                                                        |
| <b>252599</b> | Cl. 9, 41. N.V. NUTRICIA                                       | <b>252684</b> | Cl. 25. Róisín Scott                                                             |
| <b>252601</b> | Cl. 14. Midi Walsh                                             | <b>252685</b> | Cl. 2. Laydex Limited                                                            |
| <b>252602</b> | Cl. 41. Magdalena Jungkunz                                     | <b>252686</b> | Cl. 21, 42. Catherine Wilcoxson                                                  |
| <b>252605</b> | Cl. 9, 16, 35, 36, 38, 41, 42. DEPARTMENT OF SOCIAL PROTECTION | <b>252688</b> | Cl. 35. TURAS NUA LIMITED                                                        |
| <b>252607</b> | Cl. 29. Pilgrim's Food Masters Ireland Limited                 | <b>252689</b> | Cl. 5. Gilead Sciences Ireland UC                                                |
| <b>252609</b> | Cl. 35. California Travel and Tourism Commission               | <b>252692</b> | Cl. 16. Carina Ginty                                                             |
| <b>252610</b> | Cl. 30. Aldi Stores (Ireland) Limited                          | <b>252694</b> | Cl. 38, 41. Lorcan Ward                                                          |
| <b>252611</b> | Cl. 29, 30, 43. Jack Maher                                     | <b>252699</b> | Cl. 3. COLGATE-PALMOLIVE COMPANY                                                 |
| <b>252612</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252711</b> | Cl. 29, 30, 31. CALBEE, INC                                                      |
| <b>252615</b> | Cl. 20. BLUEGROUP IPCO LIMITED                                 | <b>252734</b> | Cl. 9, 42. Affirm Inc.                                                           |
| <b>252616</b> | Cl. 8. Shafiq Ahmed                                            | <b>252737</b> | Cl. 9, 38. Beijing Xinwei Telecom Technology Inc.                                |
| <b>252618</b> | Cl. 41, 43. Kevin Morrissey                                    | <b>252743</b> | Cl. 29, 30. Birds Eye Pizza Limited                                              |
| <b>252619</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252755</b> | Cl. 16, 35, 41. STARTUP IRELAND PARTNERSHIP FOR IRELAND'S STARTUP SECTOR LIMITED |
| <b>252621</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252802</b> | Cl. 29, 30. Aymar Gourdet                                                        |
| <b>252622</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252806</b> | Cl. 9. Patrick Hayes                                                             |
| <b>252623</b> | Cl. 33. Louise McGuane                                         | <b>252813</b> | Cl. 30, 43. Rathmond Ireland Limited                                             |
| <b>252624</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252819</b> | Cl. 9, 35, 41. B&Q Limited                                                       |
| <b>252625</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252916</b> | Cl. 43. BAILEYS HOTEL CASHEL                                                     |
| <b>252627</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252975</b> | Cl. 1, 5. SUMITOMO CHEMICAL (U.K.) PLC                                           |
| <b>252628</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252993</b> | Cl. 30. Whitworth Bros. Limited                                                  |
| <b>252629</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>252995</b> | Cl. 30. Whitworth Bros. Limited                                                  |
| <b>252630</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>253060</b> | Cl. 41. Paul Newhouse                                                            |
| <b>252633</b> | Cl. 9. F-STOP HOLDINGS LIMITED                                 | <b>253062</b> | Cl. 16, 35, 36, 41, 42, 43, 44, 45. Ascension Health Alliance                    |
| <b>252637</b> | Cl. 43. Yu Mei Liu                                             | <b>253065</b> | Cl. 9, 35, 38. The Carphone Warehouse Limited                                    |
| <b>252642</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>253066</b> | Cl. 9, 35, 38. The Carphone Warehouse Limited                                    |
| <b>252643</b> | Cl. 30. James Kirwan                                           | <b>253098</b> | Cl. 16, 35, 36, 41, 42, 43, 44, 45. Ascension Health Alliance                    |
| <b>252644</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>253177</b> | Cl. 16, 29, 30. Boutique Bake Limited                                            |
| <b>252645</b> | Cl. 31, 35, 41, 44. Retail Excellence Services Limited         | <b>253213</b> | Cl. 36. Lucille Aldwell                                                          |
| <b>252646</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>253277</b> | Cl. 33. ROTIMI ADEBARI                                                           |
| <b>252648</b> | Cl. 5. Gilead Sciences Ireland UC                              | <b>253434</b> | Cl. 11. Paul Hoare                                                               |
| <b>252650</b> | Cl. 25. Mightyfist European Distributor Ltd                    |               |                                                                                  |
| <b>252651</b> | Cl. 3, 29. Mungo Murphy's Seaweed Co. Limited                  |               |                                                                                  |
| <b>252653</b> | Cl. 35, 42. Declan Weldon                                      |               |                                                                                  |
| <b>252655</b> | Cl. 9, 11, 19, 20, 35. Patrick Hayes                           |               |                                                                                  |
| <b>252656</b> | Cl. 5. Gilead Sciences Ireland UC                              |               |                                                                                  |
| <b>252657</b> | Cl. 5. Gilead Sciences Ireland UC                              |               |                                                                                  |
| <b>252658</b> | Cl. 5. Gilead Sciences Ireland UC                              |               |                                                                                  |
| <b>252659</b> | Cl. 5. Gilead Sciences Ireland UC                              |               |                                                                                  |

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| <b>253456</b> | Cl. 43. John O Neill                                            |
| <b>253668</b> | Cl. 36. Frank Money Limited                                     |
| <b>253681</b> | Cl. 32. Tropicana Products, Inc.                                |
| <b>253719</b> | Cl. 36. Frank Money Limited                                     |
| <b>253880</b> | Cl. 10. Telenostic Limited                                      |
| <b>254100</b> | Cl. 3, 16, 35. Fragrances of Ireland IP Limited                 |
| <b>254267</b> | Cl. 6, 10, 16, 20, 21, 25. ESSENTIAL SUPPLIES (IRELAND) LIMITED |
| <b>254359</b> | Cl. 35, 36, 44. Optum, Inc.                                     |
| <b>254385</b> | Cl. 19, 36, 37, 42, 44. Targeted Investment Opportunities Plc   |
| <b>254387</b> | Cl. 19, 36, 37, 42, 44. Targeted Investment Opportunities Plc   |
| <b>257859</b> | Cl. 5. FLEXION THERAPEUTICS, INC.                               |
| <b>258052</b> | Cl. 33. BACARDI & COMPANY LIMITED                               |
| <b>260670</b> | Cl. 33. P. & H. EGAN (TULLAMORE) LIMITED                        |

**Trade Marks Restored to the  
Register under Rule 40 of the  
1996 Rules**

|              |                                        |
|--------------|----------------------------------------|
| <b>77072</b> | Cl. 22. Wellman International Limited. |
|--------------|----------------------------------------|

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## International Registrations under the Madrid Protocol seeking protection in the State.

Any person desiring to oppose the conferring of protection in the State to the undermentioned marks may, within three months from the date of this Journal give notice to the Controller, in accordance with the provisions of Rule 18.

It should be noted that under the provisions of Rule 63(2) no extension of the opposition period is allowed for lodging opposition under Rule 18.

It is desirable before lodging formal opposition that a communication should be addressed to the holder affording him an opportunity to withdraw his application for protection of the International Registration in the State. In this way cost of opposition proceedings may be avoided.

### SALVANA

0416785 25/07/2025

- Class 5. Additives for fodder, compositions of mineral substances with added vitamins and antibiotics for fodder, albuminous concentrates for animals, cod liver oil emulsions for livestock, cod liver oil for livestock.
- Class 31. Fodder, mixed fodder; dietetic fodder; supplementary fodder and additives for fodder, intensifying the nutritional effect of fodder, albuminous concentrates for animals, lime compositions for fodder.

SALVANA-TIERNAHRUNG GMBH, Rosenstrasse 9, 25365 SPARRIESHOOP, Germany

Representative: Harmsen Utescher  
Rechtsanwaltspartnerschaft  
mbB, Neuer Wall 80, 20354  
Hamburg, Germany



# Marsace

1179639 27/08/2025

- Class 9. Shutter releases [photography]; cameras [photography]; flash-bulbs [photography]; spools [photography]; cases especially made for photographic apparatus and instruments; stands for photographic apparatus; tripods for cameras; flashlights [photography]; photograph apparatus bags; drying racks [photography].

Shenzhen Maxiaolu Technology Co., Ltd, 1st floor B, Bldg. 2, Glory Industrial Park, Xitian Shequ, Gongming street, Guangming New District, Shenzhen, China

Representative: BUMAY IP CONSULTANCY LTD., No. 9, Lane 6, Zipeng South Road, Qiaozili, Xiabei, Longdu Town, Chenghai District, Shantou City, China



1263272 10/06/2025

Class 19. Sand, gravel, crushed stone, asphalt, bitumen, cement, gypsum for use in construction, road construction, repair and covering work; building materials (as finished products) made of concrete, gypsum, clay, potters' clay, natural or artificial stone, wood, plastics and synthetic materials for building, construction, road construction purposes, included in this class; non-metallic buildings, non-metallic building materials, non-metallic transportable buildings, poles not of metal for power lines, barriers not

of metal, doors and windows of wood and synthetic materials; traffic signs not of metal, non-luminous and non-mechanical, for road; monuments and statuettes of stone, concrete and marble; natural and synthetic surface coatings in the form of panels and sheets, being building materials; heat adhesive synthetic surface coating, being building materials; bitumen cardboard coatings for roofing; bitumen coating for roofing; building glass; prefabricated swimming pools not of metal (structures); aquarium sand.

Class 37. Construction services, rental of construction machines and equipment; installation, maintenance and repair of heating, cooling and sanitary installations; installation, maintenance and repair of industrial machines and equipment, office machines and equipment, communication apparatus, electric and electronic appliances; repair and maintenance of lifts; mining services and mining extraction.

TEPE BETOPAN YAPI MALZEMELERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ, Beytepe Köyü Yolu No:5, Bilkent, Ankara, Türkiye

Colour Claimed: Grey, red and black., Three-quarters of the triangle shape (on the left hand side) is in grey and rest of the triangle is in black with two red stripes on the shape.

Representative: DEMET USLU (USLU LAW FIRM), Atatürk Bulvarı No:199/A-20-22, Kavaklıdere Çankaya, Ankara, Türkiye



1778667 27/06/2025

Class 7. Agricultural machines; loading ramps; hoists; compressors [machines]; turbocompressors; condensing installations; jacks [machines]; current generators; lawnmowers [machines]; dishwashers; washing apparatus; washing machines [laundry]; ironing machines; boat engines; motors for boats; compressors for refrigerators; blenders, electric, for household purposes; kitchen machines, electric; vacuum cleaners; motorized cultivators; wind turbines; mobile cranes; laundry washing machines incorporating a drying tumbler; household cleaning and laundry robots with artificial intelligence.

Class 9. Alarms; fire extinguishing apparatus; fire alarms; chargers for electric batteries; collectors, electric; switchboxes [electricity]; electrical transducers; sonars; loudspeakers; record players; distribution boards [electricity]; distribution consoles [electricity]; audio- and video-receivers; radios; holograms; inverters [electricity]; accumulators, electric; batteries, electric; lightning conductors; television receivers; photovoltaic cells; solar cells; monitors [computer hardware]; mouse [computer peripheral]; light-emitting diodes [led]; portable media players; solar panels for the production of electricity; smartglasses; smartwatches;

charging stations for electric vehicles; subwoofers; virtual reality headsets; data gloves; devices for the projection of virtual keyboards; quantum dot light-emitting diodes [qlcd]; smart speakers; fire-extinguishing balls; thin film speakers; wireless speaker microphones; portable power chargers; portable speakers; humanoid robots having communication and learning functions for assisting and entertaining people; humanoid robots with artificial intelligence for preparing beverages; user-programmable humanoid robots, not configured.

Class 11. Hot air ovens; air deodorizing apparatus; refrigerating containers; air cooling apparatus; filters for air conditioning; air reheaters; air dryers; air-conditioning apparatus; air filtering installations; hot air apparatus; refrigerating cabinets; heaters for baths; lamps; bicycle lights; boilers, other than parts of machines; fans [air-conditioning]; heat regenerators; heating installations; water heaters [apparatus]; heating apparatus, electric; heating elements; drying installations; freezers; cooking utensils, electric; cooking stoves; cooking apparatus and installations; desiccating apparatus; disinfectant apparatus; cooling installations for water; pressure water tanks; heat exchangers, other than parts of machines; lighting apparatus and installations; chandeliers; ceiling lights; evaporators; cooling installations and machines; germicidal lamps for purifying air; cool boxes, electric; ionization apparatus for the treatment of air or

water; ultraviolet ray lamps, not for medical purposes; cooling installations for liquids; kitchen ranges [ovens]; air purifying apparatus and machines; cooling appliances and installations; refrigerating appliances and installations; ventilation [air-conditioning] installations and apparatus; air sterilizers; heat pumps; solar thermal collectors [heating]; refrigerators; extractor hoods for kitchens; electric fans for personal use; laundry dryers, electric; heating and cooling apparatus for dispensing hot and cold beverages; electric cooktops; underfloor heating apparatus and installations; underfloor heating installations; humidifiers; dehumidifiers.

Martin Štěpán, Hany Meličkovej 2991/24, SK-841 05 Bratislava, Slovakia

Colour Claimed: Black, grey and blue., The color(s) black, gray, blue is/are claimed as a feature of the mark.

Representative: MAJLINGOVÁ & PARTNERS, S.R.O., Budatínska 12, SK-851 06 Bratislava, Slovakia

## SAVOIR DE MODE

1804400 07/06/2024

Class 25. Belts; blazers; coats; dresses; hats; jackets; pants; scarves; shirts; shorts; skirts; vests.

Priority Date Claimed: 21 December 2023 Canada  
SAVOIR DE MODE INC., 310-235 Keith Rd, West Vancouver, BRITISH COLUMBIA, V7T1L5, Canada

Representative: COASTAL TRADEMARK SERVICES LIMITED, 301-543 Granville Street, Vancouver, BRITISH COLUMBIA, V6C1X8, Canada

## THINK IT. MAKE IT.

1817738 29/07/2025

Class 9. Computer software; mobile application software; computer integration software; mobile integration application software; computer software and mobile application software for content sharing and collaboration; computer software and mobile application software for document management and workplace collaboration; computer software and mobile application software for project and task management; computer software and mobile application software for business knowledge management and collaboration, general work management, project tracking, document management, transmission and receipt of data and images, messaging and conversation based contextual sharing of information, organizing documents, data



|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>and information; computer software and mobile application software for providing a platform for collaboration, sharing of information, and interactive discussions to other users, and uploading and transferring files; computer software and mobile application software for facilitating the exchange of information via the Internet featuring collaboration tools; computer software and mobile application software for electronic communications, including chats, email and discussions; computer software and mobile application software for allowing users to organize projects, to collaborate and share perspective on projects, to create lists and checklists, to comment on ongoing projects, to participate in discussions and receive feedback from others; computer integration software and mobile integration application software for integrating different applications into a single application.</p> | <p>knowledge management and collaboration, general work management, project tracking, document management, transmission and receipt of data and images, messaging and conversation based contextual sharing of information, organizing documents, data and information, providing a platform for collaboration, sharing of information, and interactive discussions to other users, and uploading and transferring files; providing online non-downloadable software for facilitating the exchange of information via the Internet featuring collaboration tools; providing online non-downloadable software for electronic communications, including chats, email and discussions; providing online non-downloadable software for allowing users to organize projects, to collaborate and share perspective on projects, to create lists and checklists, to comment on ongoing projects, to participate in discussions and receive feedback from others; providing online non-downloadable integration software for integrating different applications into a single application; software as a service (SAAS) services featuring integration software for integrating different applications into a single application.</p> |
| Class 42. | <p>Providing online non-downloadable software; providing online non-downloadable integration software; providing online non-downloadable software for content sharing and collaboration; software as a service (SAAS) services featuring software for content sharing and collaboration; providing on-line non-downloadable software for document management and workplace collaboration; software as a service (SAAS) services featuring software for project and task management; providing online non-downloadable software for business</p>                                                                                                                                                                                                                                                                                                                                                                                  | <p>Notion Labs, Inc., 685 Market Street, Suite 300, San Francisco CA 94105, United States of America</p> <p>Representative: Katherine M. Basile Reed<br/>Smith LLP, P.O. Box 488,<br/>Pittsburgh PA 15230, United States of America</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## NAVIGATE

**1827303** 18/08/2025

- Class 41. Electrical safety training; education, training and teaching; organization and conducting of seminars, also online; all the aforesaid services on the subject of electrical distribution installations.
- Class 42. Technological testing and consulting services in the field of electrical distribution installations; technical project studies and advice relating thereto in the field of electrical distribution installations; engineering services in the field of electrical distribution installations; production of expert reports in the field of electrical distribution installations; advisory services with respect to computer security; quality control examinations for electrical distribution installations; providing technical information and advice relating to electrical distribution installations; sustainable technological development consulting; advisory and consultation services with respect to energy efficiency; advisory and consultation services in the field of energy measurement to improve energy efficiency; advisory and consultation services with respect to offsetting greenhouse gas emissions; technical risk assessment for safety in electrical distribution installations; risk assessment for computer security; risk assessment for data security.

- Class 45. Consulting with respect to safety; occupational safety risk assessment; risk assessment for physical safety of material assets and individuals.

ABB Asea Brown Boveri Ltd, Affolternstrasse 44,  
CH-8050 Zürich, Switzerland

Representative: Taylor Wessing  
Partnerschaftsgesellschaft mbB,  
Thurn-und-Taxis-Platz 6,  
60313 Frankfurt am Main,  
Germany



**1831523** 10/07/2024

- Class 16. Printed materials in the nature of training materials in the field of business management and consulting.
- Class 25. Hats, shirts and jackets.

Priority Date Claimed: 27 February 2024 United States of America

Freudenberg-NOK General Partnership, 47690 East Anchor Court, Plymouth MI 48170, United States of America

Representative: Jessica S. Sachs Harness,  
Dickey & Pierce, P.L.C., 5445  
Corporate Drive, Suite 200,  
Troy MI 48098, United States  
of America

**RAPIDOL****1836536** 03/12/2024Class 5. Pharmaceutical preparations;  
pharmaceutical products.Farmina sp. z o.o., ul. Lipska 44, PL-30-721  
Kraków, PolandRepresentative: Marcin Ożóg, TRILOKA  
Czarnik Ożóg, Kancelaria  
Patentowa i Adwokacka sp.p.,  
ul. Kornela Ujejskiego 12/7,  
PL-30-102 Kraków, Poland**1837341** 29/08/2024Class 6. Metal structures; metal  
structures [buildings].Class 9. Software; computer  
programs; mobile  
applications.Class 11. Electric lighting; electric  
lighting fittings; electric  
lighting fittings; regulating  
and safety fittings for water  
appliances; regulating fittings  
for water pipes; regulating  
fittings for water or gas  
appliances and pipes; safety  
fittings for water pipes; water  
distribution fittings.Class 12. Vehicles; cable transport  
structures and installations.Class 19. Portable non-metallic  
structures; transportable; non-metallic building structures;  
non-metallic structures, non-  
metallic.Class 35. Commercial management;  
business management.Class 36. Financial management; real  
estate management;  
investment management; real  
estate management; real  
estate investment; real estate  
investment management.

Class 37. Construction.

Class 38. Telecommunications.

Class 39. Water distribution; energy  
distribution; electricity  
distribution.

Class 41. Training.

Class 42. Design and development of  
energy distribution networks;  
development of energy and  
electricity management  
systems; development of  
construction projects;  
technical design services for  
water supply installations.

Priority Date Claimed: 31 July 2024 Portugal

CONSTRUCTEL VISABEIRA, S.A., RUA DO  
PALÁCIO DO GELO, N.º 1, PALÁCIO DO GELO  
SHOPPING, PISO 3, P-3500-606 VISEU, PortugalRepresentative: JOSÉ LUÍS FAZENDA  
ARNAUT DUARTE, RUA  
CASTILHO, 50, P-1250-071  
LISBOA, Portugal

**FUWEI**  
富 纬

**1848383** 17/05/2025

Class 7. Tambours for embroidery machines; sewing machine transmission pedal; pedal drives for sewing machines; sewing machine; industrial sewing machine table; stitching machines; overlock sewing machine; hosiery machine; machines for the textile industry; sliders for knitting machines.

Zhejiang Xingyue Sewing Equipment Co.,Ltd., 882#  
Jidong Road, Huandong Street, Zhuji City, 311831  
Zhejiang Province, China

Representative: **HANGZHOU HAORUI  
TRADEMARK CO., LTD,**  
Room 2518, The modern center  
South Building, No.161  
Shaoxing Road, Xiacheng  
District, Hangzhou, 310014  
Zhejiang, China



**1859754** 29/07/2025

Class 30. Coffee, tea, cocoa and artificial coffee; rice; tapioca and sago; flour and preparations made from cereals; bread; pies; sweets; frozen desserts; bee honey, treacle; yeast, baking powder; salt; mustard; vinegar; sauces (condiments); spices; ice (frozen water).

FLEXWAY DMCC, Unit No: 806 JBC1, Plot No:  
JLT-PH1-G2A, Jumeirah Lakes Towers, Dubai,  
United Arab Emirates

Representative: **Axiom Mark Intellectual  
Property, P.O. Box 118587,  
Dubai, United Arab Emirates**

**BOBBIE GOODS**

**1859850** 15/05/2025

Class 16. Stickers; printed coloring books.

Class 35. On-line retail store services relating to the sale of calendars, coloring books, stickers, tote bags, art prints, and greeting cards.

Abbie Goveia Art & Design LLC, 681 San Rodolfo Dr. #1007, Solana Beach CA 92075, United States of America

Representative: John K. Buche The Buche Law Firm, P.C., 901 S MoPac Expy, Bldg. 1, Ste. 300, Austin TX 78746, United States of America

Address for service: TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland

Registration of this Trade Mark gives no right to the exclusive use of "GOODS"

hardware; downloadable and recorded software for machine learning and data analytics in customer service; downloadable cloud-based software for AI-driven customer service solutions; downloadable and recorded software for managing and controlling AI-powered robotics and humanoid robots providing customer services; downloadable and recorded software for enabling offline and online AI-powered humanoid robot operations, including autonomous service delivery in physical environments; downloadable software for real-time monitoring, control, and optimization of AI-powered humanoid robots in customer service roles; downloadable software for creation, collection, curation, delivery, retrieval, publication, and governance of digital content; downloadable software for real-time monitoring of customer service platforms; downloadable software for real-time language translation for written communications such as chat, messaging, and SMS; downloadable software for language translation for written communications such as chat, messaging, SMS, and email; downloadable software for language translation.

Class 35. Outsource service provider in the field of customer relationship management; business advisory services in digital transformation; company communication services in the nature of customer experience solutions, namely, customer relationship management services; business efficiency expert services; business research; providing outsourcing services in the field of managing customer

IX WISDOM

1864669 15/04/2025

Class 9. Downloadable software for providing customer service assistance; downloadable and recorded software for facilitating interaction and communication between humans and artificial intelligence platforms; downloadable and recorded software featuring an artificial intelligence component or module for solving problems in the field of customer service; downloadable and recorded computer software for artificial intelligence applications for the personalization of software applications and computer

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | relations; customer relationship management services; outsourcing service provider in the field of customer support and analysis being customer relationship management services; contact service management for others by managing end customer interactions across channels spanning the entire customer lifecycle; assistance, advisory services, and consultancy with regard to business customer analysis powered by AI; business consulting services related to AI-driven business transformation; business advisory services for the integration of AI-powered robotics and humanoid robots in customer service environments; business management and business operations advisory services related to the use of AI-powered humanoid robots for autonomous customer service delivery in both online and offline environments. | customer service, automation, analytics, agent guidance, and increased accuracy and quality of information delivered; providing temporary use of online non-downloadable software using artificial intelligence for providing real-time assistance for agents at contact centers, improving response times and call handle times for agents at contact centers, and improving efficiency and quality of agent responses at contact centers; providing online non-downloadable software for enabling users to interface with multiple platforms in an abstracted manner; providing online non-downloadable software for integrating, interacting with, and abstracting various third-party services to enable users to interface with multiple platforms; consultation services in the field of designing, implementing, and using software for the integration, interaction, and abstraction of third-party platforms; computer software consulting services featuring advice and support in the field of artificial intelligence integration; providing online non-downloadable software for machine learning and natural language processing; providing online non-downloadable software for developing neural networks; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence (AI) for use in database management, machine learning, translation, and analytics; continuous integration and deployment for AI and software platforms in the nature of updating and maintenance of computer software; providing online |
| Class 42. | Software as a service (SaaS) services featuring software for assisting with customer service; software as a service (SaaS) services featuring software using artificial intelligence for assisting with customer service; providing temporary use of online non-downloadable chatbot software for customer service; providing temporary use of online non-downloadable chatbot software using artificial intelligence for virtual agent or virtual assistant functions for customer service; software as a service (SaaS) services featuring software for enhancing engagement by customer contact centers and call centers by using human and artificial intelligence to provide more efficient                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

non-downloadable software for managing AI-powered humanoid robots in physical customer service roles, including logistics, maintenance, and customer interaction; software as a service (SaaS) services featuring software for AI-powered robotics and humanoid robots designed to perform both online and offline customer services; providing online non-downloadable software for monitoring, controlling, and optimizing AI-powered humanoid robots in real-world customer service environments; computer software consultation services related to AI-powered robotics and humanoid robots for enhancing customer experience through both digital and physical channels; providing temporary use of online non-downloadable software for creation, collection, curation, delivery, retrieval, publication, and governance of digital content; providing temporary use of online non-downloadable software for real-time monitoring of customer service platforms; providing temporary use of online non-downloadable software for real-time language translation for written communications such as chat, messaging, and SMS; providing temporary use of online non-downloadable software for language translation for written communications such as chat, messaging, SMS, and email; providing temporary use of online non-downloadable software for language translation.

Priority Date Claimed: 01 November 2024 United States of America

Concentrix CVG Customer Management Delaware LLC, 201 East Fourth Street, Suite 200, Cincinnati OH 45202, United States of America

Representative: Kathryn M. Lyddane Dority & Manning, P.A., Two Liberty Square, 75 Beattie Place, Suite 1100, Greenville SC 29601, United States of America

Registration of this Trade Mark gives no right to the exclusive use of "IX"



1865342 21/04/2025

Class 14. Clocks and watches, electric; works of art of precious metal; precious metals, unwrought or semi-wrought; watch bands; wristwatches; clocks; jewellery boxes; movements for clocks and watches; jewellery; clocks and watches.

Priority Date Claimed: 06 November 2024 China  
Guangzhou Junxiang Business Co., Ltd., 208, 2/F, No.96, Shilou Section, Shilian Rd., Shilou Town, Panyu District, Guangzhou City, 510000 Guangdong Province, China

Representative: Guangzhou Baicheng  
intellectual property Agency  
Co., Ltd., Room 709, No.423  
Sanyuanli Avenue, Yuexiu  
District, Guangzhou City,  
Guangdong Province, China

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## MATTER OF FACT

1865584 05/06/2025

Class 3. Non-medicated skin care  
preparations; non-medicated  
lotions, creams, gels, salves,  
sprays, and powders for the  
skin and body; non-  
medicated cosmetics in the  
nature of ointments for the  
skin and body.

MF BEAUTY PARTNERS LLC, 4100 SAINT  
ANDREWS BLVD., IRVING TX 75038, United  
States of America

Notings: The request for protection is  
proceeding with the consent of  
the proprietors of Registered  
European Union Trade Mark  
No: W01489208.

Representative: Kelly Kubasta Ferguson  
Braswell Fraser Kubasta PC,  
2500 Dallas Parkway, Suite  
600, Plano TX 75093, United  
States of America

## Objective Nutrients

1870662 25/06/2025

Class 5. Nutraceuticals for use as a  
dietary supplement; dietary  
and nutritional supplements.

Objective Nutrition Ltd, Lytchett House, 13 Freeland  
Park, Wareham Road, Poole BH16 6FA, United  
Kingdom

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## HEMECRAFT GRIPSURE

1870999 11/07/2025

Class 6. Shower and bath grab bars  
for support, of metal.

Class 20. Shower and bath grab bars  
for support, of plastic.

Priority Date Claimed: 10 July 2025 United States of  
America

Performance Health Holdings, Inc., 3333 Finley  
Road, Suite 575, Downers Grove IL 60515, United  
States of America

Representative: James McCarthy Norvell IP llc,  
PO Box 2461, Chicago IL  
60690, United States of  
America



**Jooble**

1871146 08/07/2025

Class 9. Cryptocurrency hardware wallets; security token hardware for user authentication; electronic publications, downloadable; downloadable e-wallets; holograms; downloadable emoticons for mobile telephones; downloadable application software for virtual environments; downloadable computer software applications for minting non-fungible tokens [NFTs]; computer software applications, downloadable; downloadable graphics for mobile telephones; interfaces for computers; computer hardware; computer game software, downloadable; computer game software, recorded; monitors (computer programs); animated cartoons; data sets, recorded or downloadable; computer software platforms, recorded or downloadable; computer programs, downloadable; computer programs, recorded; computer operating programs, recorded; downloadable software for generating cryptographic keys for receiving and spending cryptocurrency; downloadable computer software for managing cryptocurrency transactions using blockchain technology; computer software, recorded; downloadable image files; downloadable music files; downloadable digital music files authenticated by non-fungible tokens [NFTs]; downloadable digital image files authenticated by non-fungible tokens [NFTs].

Class 35. Administrative assistance in responding to requests for proposals [RFPs]; administrative processing of purchase orders; administration of consumer loyalty programs; administration of frequent flyer programs; cost price analysis; business auditing; financial auditing; auctioneering; outsourced administrative management for companies; accounting; web indexing for commercial or advertising purposes; book-keeping; negotiation of business contracts for others; market studies; opinion polling; invoicing; arranging newspaper subscriptions for others; arranging subscriptions to telecommunication services for others; payroll preparation; tax preparation; demonstration of goods; business inquiries; business management assistance; commercial or industrial management assistance; business management advisory services; business research; economic forecasting; providing business information via a website; compilation of information into computer databases; compilation of statistics; business information; business management of performing artists; business management for freelance service providers; business management of hotels; business management of sports people; business management of reimbursement programmes for others; interim business management; commercial information and advice for consumers in the choice of products and services; commercial administration of

the licensing of the goods and services of others; computerized file management; personnel management consultancy; business management consultancy; consultancy regarding advertising communication strategies; consultancy regarding public relations communication strategies; business organization consultancy; marketing; marketing in the framework of software publishing; targeted marketing; marketing research; typing; provision of commercial and business contact information; provision of an online marketplace for buyers and sellers of goods and services; writing of curriculum vitae for others; writing of publicity texts; scriptwriting for advertising purposes; word processing; updating of advertising material; updating and maintenance of data in computer databases; updating and maintenance of information in registries; website traffic optimization; organization of exhibitions for commercial or advertising purposes; organization of fashion shows for promotional purposes; organization of trade fairs for commercial or advertising purposes; rental of advertising space; shop window dressing; business appraisals; personnel recruitment; assistance and advice regarding business organization and management; business intermediary services relating to the matching of potential private investors with entrepreneurs needing funding; commercial information agency services; employment agency services;

business efficiency expert services; outsourcing services [business assistance]; business project management services for construction projects; competitive intelligence services; corporate communications services; layout services for advertising purposes; appointment reminder services [office functions]; news clipping services; price comparison services; administrative services for the relocation of businesses; market intelligence services; photocopying services; procurement services for others [purchasing goods and services for other businesses]; media relations services; appointment scheduling services [office functions]; gift registry services; tax filing services; import-export agency services; modelling for advertising or sales promotion; advertising agency services; secretarial services; public relations; commercial lobbying services; commercial intermediation services; wholesale services for pharmaceutical, veterinary and sanitary preparations and medical supplies; online retail services for downloadable digital music; online retail services for downloadable ring tones; online retail services for downloadable and pre-recorded music and movies; retail services for works of art provided by art galleries; retail services for pharmaceutical, veterinary and sanitary preparations and medical supplies; data search in computer files for others; sponsorship search; search engine optimization for sales promotion; presentation of goods on communication media, for retail purposes;

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|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>telephone answering for unavailable subscribers; rental of billboards [advertising boards]; office machines and equipment rental*; rental of office equipment in co-working facilities; publicity material rental; rental of advertising time on communication media; rental of vending machines; rental of sales stands; rental of photocopying machines; direct mail advertising; psychological testing for the selection of personnel; publication of publicity texts; radio advertising; registration of written communications and data; advertising; pay per click advertising; outdoor advertising; advertising by mail order; online advertising on a computer network; document reproduction; bill-posting; distribution of samples; dissemination of advertising matter; creation of advertising material; business investigations; systemization of information into computer databases; drawing up of statements of accounts; compiling indexes of information for commercial or advertising purposes; sales promotion for others; promotion of goods and services through sponsorship of sports events; production of advertising films; production of teleshopping programmes; shorthand; transcription of communications [office functions]; television advertising; telemarketing services; negotiation and conclusion of commercial transactions for third parties; professional business consultancy.</p> | <p>global computer networks; providing internet chatrooms; providing online forums; providing telecommunications connections to a global computer network; providing telecommunication channels for teleshopping services; communications by fibre optic networks; communications by computer terminals; mobile telephone communication services; information services relating to telecommunications; paging services [radio, telephone or other means of electronic communication]; video-on-demand transmission; transmission of greeting cards online; transmission of electronic mail; computer aided transmission of messages and images; transmission of telegrams; transmission of digital files; message sending; videoconferencing services; voice mail services; electronic bulletin board services [telecommunications services]; telegraph services; telephone services; telecommunications routing and junction services; news agency services; teleconferencing services; streaming of data; rental of message sending apparatus; rental of modems; rental of telecommunication equipment; rental of telephones; rental of facsimile apparatus; rental of access time to global computer networks; radio communications; radio broadcasting; satellite transmission; television broadcasting; cable television broadcasting; communications by telegrams; communications by telephone; wireless</p> |
| Class 38. | <p>Telex services; providing access to databases; providing user access to</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

broadcasting; facsimile transmission.

- Class 42. Recovery of computer data; installing computer programs; duplication of computer programs; computer programming; computer systems analysis; conversion of computer programs and data, other than physical conversion; conversion of documents from physical to electronic media; consultancy in the design and development of computer hardware; rental of web servers; computer rental; computer software rental; visual design; computer software maintenance; creating and maintaining websites for others; updating computer software; quality control; research and development of new products for others; computer systems design; hosting computer websites; computer software development; providing search engines for the internet; providing specific search engines for the Internet for searching job opportunities (vacancies and resumes), real estate offers, auto and motorcycle equipment offers, books offers, and dating offers.

Priority Date Claimed: 21 February 2025 Ukraine  
Ladoburn Europe Limited, Arch. Makariou III, 205  
Victory House, Flat/Office 212, CY-3030 Limassol,  
Cyprus

Representative: Olexandr Zhikharev, P.O. Box  
168, Kyiv 02144, Ukraine

## MICROALEXINS

1871166 11/07/2025

- Class 1. Chemicals for use in industry; chemicals for use in science; biological preparations for use in industry and science.
- Class 3. Non-medicated cosmetics and toiletry preparations; perfumery; essential oils; bleaching preparations and other substances for laundry use; cleaning and polishing preparations.

Priority Date Claimed: 29 January 2025 Germany  
Henkel AG & Co. KGaA, Henkelstrasse 67, 40589  
Düsseldorf, Germany



1871223 12/03/2025

- Class 9. Computer game software, downloadable; computer game software, recorded; computer programs, downloadable; computer software applications, downloadable; video game cartridges.
- Class 25. Clothing; tee-shirts; socks; uniforms; hoods [clothing].
- Class 35. Data processing services [office functions];

dissemination of advertising matter.

Class 41. Game services provided online from a computer network; games library services; providing facilities for playing live action role playing [LARP] games.

Class 42. Computer programming; computer software design; development of computer platforms; development of video and computer games; software as a service [SaaS].

«VS Entertainment» LLC, Business Center 1, M Floor, The Meydan Hotel, Nad Al Sheba, Dubai, United Arab Emirates

Representative: Ani Davtyan, Room 301, Floor 3, City center, Buzand 15, 0010 Yerevan, Armenia

## NOCTURNE



1871361 12/06/2025

Class 33. Wines, except sparkling wines.

Priority Date Claimed: 25 February 2025 Republic of Moldova

VINĂRIA PURCARI S.R.L., întreprindere mixtă, Ștefan-Vodă, MD-4229 Purcari, Republic of Moldova

Representative: Iulian E. Iorga, Maître, Șoseaua Hâncești, 20, MD-2028 Chișinău, Republic of Moldova

## EMPERY

1871735 09/07/2025

Class 36. Financial and investment services, namely, management and brokerage in the fields of stocks, bonds, options, commodities, futures and other securities, and the investment of funds of others.

Priority Date Claimed: 09 January 2025 United States of America

Empery Asset Management LP, 1 Rockefeller Plaza, Suite 1205, New York NY 10020, United States of America

Representative: Scott Kareff Schulte Roth & Zabel LLP, 919 Third Avenue, New York NY 10022, United States of America



1871898 20/06/2025

Class 30. Pastries; confectionery; chocolate; chocolate products; filled wafers; coated wafers; biscuits; edible ices; ice cream; sorbets [ices].

Priority Date Claimed: 28 March 2025 Italy

FERRERO S.P.A., PIAZZALE PIETRO FERRERO 1, I-12051 ALBA, CUNEO, Italy

Colour Claimed: Brown, black, red-orange and light blue.

Representative: JACOBACCI & PARTNERS S.P.A., Corso Emilia 8, I-10152 Torino, Italy

**Flatworld.**   
SOLVING FOR TOMORROW

1871913 23/07/2025

Class 42. Artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for data extraction and data

processing across industries including accounting, healthcare, insurance, mortgage, ecommerce, inventory management, legal and other verticals that require data to be extracted from physical and digital documents, sending intelligent chat and email responses, and enabling automation of video and image editing; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for tracking receipts, income, and bank transactions in the field of accounting; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting risk assessments that identify risks; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting analysis of credit history, for evaluating payment history, and for monitoring portfolios in the field of underwriting; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting sentiment analysis that monitors and analyzes customer's opinions; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting quality monitoring and control that identifies customer concerns; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting customs brokerage and logistics to verify customs declarations are correct; artificial

intelligence as a service (AIaaS) services featuring software using artificial intelligence for rendering drawing drafts in connection with civil, mechanical, and architectural services; artificial intelligence as a service (AIaaS) services featuring software using artificial intelligence for conducting research and analysis; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for data extraction and data processing across industries including accounting, healthcare, insurance, mortgage, ecommerce, inventory management, legal and other verticals that require data to be extracted from physical and digital documents, sending intelligent chat and email responses, and enabling automation of video and image editing; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for tracking receipts, income, and bank transactions in the field of accounting; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting risk assessments that identify risks; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting analysis of credit history, for evaluating payment history, and for monitoring portfolios in the field of underwriting; generative artificial

intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting sentiment analysis that monitors and analyzes customer's opinions; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting quality monitoring and control that identifies customer concerns; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting customs brokerage and logistics to verify customs declarations are correct; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for rendering drawing drafts in connection with civil, mechanical, and architectural services; generative artificial intelligence as a service (AIaaS) services featuring software using generative artificial intelligence for conducting research and analysis; data science services, namely, data automation and collection service using proprietary software to evaluate, analyze and collect service data; computer graphic design services.

Priority Date Claimed: 30 January 2025 United States of America

Flatworld Solutions, Inc., 116 Village Boulevard, Suite 200, Princeton NJ 08540, United States of America

Representative: Kourtney A. Mulcahy Akerman LLP, 777 South Flagler Drive, Suite 1100 West Tower, West Palm Beach FL 33401, United States of America

Priority Date Claimed: 13 January 2025 United States of America

SendingCell, LLC, 1180 McDermott Drive, West Chester PA 19380, United States of America

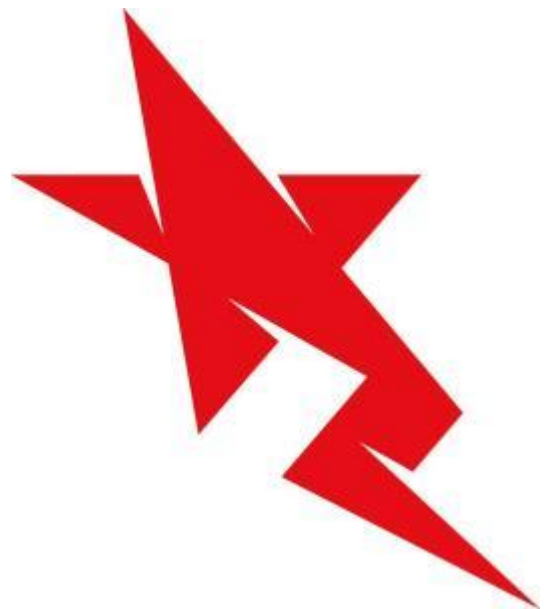
Representative: DLA Piper LLP (US), 555 Mission Street, Suite 2400, Attn: Gina Durham, Esq. - 438866.910102, San Francisco CA 94105-2933, United States of America

## SENDINGCELL

1871979 08/07/2025

Class 35. Consulting in sales techniques and sales programs; advertising agency services, namely, promoting sales for the biotech, pharmaceutical, and medical device industries.

Class 41. Developing training systems and learning methodologies for others in the fields of science and sales for the biotech, pharmaceutical and medical device industries; development, creation, production, and post-production of content for use by biotech, pharmaceutical, and medical device companies and operators to educate, inform and train sales people, scientific and medical team members, and healthcare providers; educational services, namely, developing curriculum for others in the fields of science and sales for biotech, pharmaceutical and medical device industries, and providing printed and digital training materials thereon.



1872043 28/03/2025

Class 32. Soft drinks; mineral and carbonated waters; preparations for making beverages; fruit juices; vegetable juices; non-alcoholic fruit extracts used for making beverages; nectars; fruit syrups for making beverages; isotonic drinks; energy drinks; lemonade; syrups for beverages; powders for beverages; non-alcoholic aperitifs; beer.



Foodcare Sp. z o.o., ul. Spokojna 4, PL-32-080  
Zabierzów, Poland

Colour Claimed: Red.

Representative: Katarzyna Tabor-Kmiecik,  
Kancelaria Patentowa Dr W.  
Tabor Sp. J., ul. Mazowiecka  
28A/8-9, PL-30-019 Kraków,  
Poland

## GLACIOLOGY

1872119 17/07/2025

Class 3. Cosmetics; cosmetic preparations for skin care; non-medicated skin care preparations; non-medicated toiletry preparations; non-medicated skin cleansers, soaps, moisturisers, peels, toners, lotions, creams, masks, serums, balms and gels.

Priority Date Claimed: 24 January 2025 United Kingdom

The Boots Company PLC, Nottingham NG2 3AA,  
United Kingdom

Representative: The Boots Company PLC,  
Group Intellectual Property,  
Legal Department, D90 WF20,  
Nottingham NG90 1BS, United  
Kingdom

# PROXITY

1873133 23/05/2025

Class 36. Real estate agency services for the rental of buildings; real estate agency services for the leasing of land; real estate listing services for housing rentals and apartment rentals; property leasing [real estate property only]; rental of real estate; arranging of leases for the rental of commercial property; collection of debt on real estate rental; estate agency services for sale and rental of buildings; real estate agency services relating to the purchase and sale of buildings; real estate brokerage; real estate agency services; financing of real estate development projects; estate agency; real estate consultancy; real estate management; real estate management services relating to retail premises; real estate management services relating to housing estates; real estate management services relating to industrial premises; real estate management services relating to office premises; real estate management services relating to building complexes; real estate management services relating to shopping malls; real estate management services relating to commercial buildings; real estate management of vacation homes; real estate affairs; arranging of shared ownership of real estate; management of commercial properties; real estate and property management services; property portfolio management; real estate services related to

management of property investments; financial consultancy relating to real estate investment; real estate investment; real estate investment advice; commercial property investment services; management services for real estate investment; financial management of real estate projects; planning (estate -) [financial]; investment services; real estate appraisal; real estate insurance services; insurance services relating to real estate.

Class 37. Janitorial services; janitorial cleaning services; building repair; maintenance and repair of building contents; maintenance and repair of parts and fittings for buildings; maintenance and repair of utilities in buildings; building maintenance and repair; building of industrial properties; construction of residential properties.

Class 39. Transportation logistics; providing self-storage facilities for others; warehouse storage; storage of goods; storage; storage of goods in warehouses; bulk storage; rental of garages and parking places; car park services; rental of storage space; leasing of warehouse units; rental of warehouses; rental of warehouse space; transport.

Class 42. Estates (planning of building -).

Priority Date Claimed: 02 April 2025 Germany

Proximity GmbH, c/o OFFICEFIRST Real Estate GmbH, Friedrich-Ebert-Anlage 49, 60308 Frankfurt am Main, Germany

Representative: Boisserée Rechtsanwälte Partnerschaft mbB, Römerstraße 85, 50996 Köln, Germany

## SKINSPAN

1874467 30/07/2025

Class 3. Cosmetics; skincare cosmetic products; sun care preparations for cosmetic purposes; cosmetic sun-protecting preparations; sun-screening preparations; non-medicated skin care products.

Priority Date Claimed: 17 March 2025 Australia

DNC Labs Pty Ltd, 63 Burton St, Darlinghurst NSW 2010, Australia

Representative: Mark My Words Trademark Services Pty Ltd, PO Box 1140, UPWEY VIC 3158, Australia



MISS  
ANAÏS

1874880 30/07/2025

Class 33. Alcoholic beverages (with the exception of beers); wines.

Priority Date Claimed: 31 January 2025 France  
 CHANTOVENT, Quai du Port au Vin, F-78270  
 Bonnières-sur-Seine, France

Representative: Madame COUDRY Hermine  
 MIIP - MADE IN IP, 60 rue  
 Pierre Charron, F-75008  
 PARIS, France

## **Cancellations effected for the following goods/services under the Madrid protocol**

**1765068** OUTPACING CHANGE  
 Goods/Services remaining:  
 Class 9.  
 Downloadable electronic publications provided on-line from databases, the Internet or other telecommunications connection, all relating to legal and business consulting services; computer software including software enabling document exchange, electronic file maintenance and communications; computer software for collecting, processing, storing, sharing, reviewing, searching, retrieving, managing, categorizing, coding and producing records, documents, emails, and other materials and information, whether generated or stored electronically or otherwise.  
 Class 16.  
 Printed matter, printed publications, pamphlets, brochures, manuals, books, instructional and teaching materials (other than apparatus), all relating to the law and the provision of legal services and business consulting services; printed matter, printed publications, pamphlets, brochures, manuals, books; stationery and writing instruments; publications providing business information.  
 Class 35.  
 Business research, compilation and provision of business information; advisory services relating to business information; advisory services relating to business management, business

organisation, acquisitions and mergers, franchising, preparation of business reports, provision of information and advisory services all relating to the aforesaid services; business consultancy; the provision of commercial and business information and costs analysis; business project advice, business risk management, business risk (including privacy and data risk) management, business process management; personnel management, selection and recruitment, outplacement services; tax consulting and advisory services; consulting and advisory services relating to personnel management; consulting and advisory services relating to the management of health, safety and wellbeing risks; business consultancy; business statistical information, data processing; commercial consultancy; consultancy and publications providing business information; consultancy on international business management, consulting and advisory services relating to operational and supply change management and the development, organisation and implementation of policies and programs in relation to such services; consulting and advisory services relating to the development, organisation and implementation of policies and programs in relation to technology, cyber and ICT risk.  
 Class 36.  
 Financial services provided by solicitors; investment, actuarial and pension services; trusteeship services; financial aspects of taxation, tax planning and tax assessment services; debt recovery and collection; financial services relating to insolvency; consultancy, advisory and information services relating to all the aforesaid service; financial risk management and financial crime risk advisory services.  
 Class 41.  
 Arranging and conducting of conferences and seminars; education and training services, all relating to the law and the provision of legal services and business consulting services; provision of information relating to the aforesaid services; provision of

information relating to the aforesaid services provided on-line from a computer database, the Internet or other telecommunications connection.  
Class 42.

Technical research, enquiry and investigation services; consultancy, advisory and information services relating to all the aforesaid services; computer software services, namely developing, supporting, maintaining, and hosting computer software systems and programs, and providing computer software consulting services, all in the field of litigation and record management software, and in connection with legal and business consulting services; software as a service; consulting and advisory services relating to technology, cyber and ICT risk.

Class 45.

Legal services; legal research, enquiry and investigation services; company formation and registration services; establishment, maintenance and management of intellectual property rights, patent agency and trade mark agency services; legal advocacy, mediation and other dispute resolution services; legal services relating to business; consultancy, advisory and information services relating to all the aforesaid services; legal services relating to governance advisory services; consulting services connected to regulatory change and regulatory enforcement risks; litigation and dispute resolution support services; litigation and dispute support services; legal information services.

Date of Recordal of Cancellation:  
09/09/2025

**0878533**

FAM

Goods/Services remaining:

Class 6.

Steel constructions and metal silos; metal hoppers, not as part of a machine.

Class 7.

Machines, machine parts, devices and installations assembled therefrom for conveying and preparing mineral, metallic and organic raw materials and piece goods, comprising substantially stationary, semi-mobile and mobile

band conveyors, belt conveyors, chain conveyors, roller conveyors, jointed-band conveyors, platform conveyors, box conveyors, vibrating conveyors, mechanical vibration generators, feeder troughs, scraper conveyors, screw conveyors, bucket-type machines, mechanical mixed-bed devices, scrapers, belt sedimenters, waste dumping devices, waste recovery devices, mechanical ship loading equipment, mechanical ship unloading equipment, mechanical wagon loading equipment, mechanical wagon unloading equipment, bunker draw-off devices, excavators, chassis, breakers, crushers, hopper wagons, hoist towers, conveyor bridges and cranes, and mechanical sorters (all the aforementioned goods included in this class).

Class 12.

Vehicles; apparatus for conveying overland; chassis, specifically continuous track and wheeled chassis; dump wagons, belt wagons, cable-drum wagons, cableways and winches as part of cableways.

Class 37.

Installation, assembly, maintenance and repair of machines, machine parts, devices and installations assembled therefrom for conveying and preparing mineral, metallic and organic raw materials and piece goods; assembly of steel structures; painting work.

Class 40.

Metal machining, specifically cutting metal to size, such as flame cutting and laser cutting, metal shaping, such as press-folding and rolled-sheet bending, joining and connecting metals, such as welding, material-removing machining, such as turning, boring and drilling and milling; metal surface finishing, specifically zinc phosphating and powder-coating.

Class 42.

Building and construction planning and consultancy, technical project planning and consultancy, inspection as a technical check, services of engineers, research in the area of machine construction, software programming and acquisition and evaluation of operating and process

data, all relating to machines, machine parts, devices and installations assembled therefrom for conveying and preparing mineral, metallic and organic raw materials and piece goods.

Date of Recordal of Cancellation:  
01/07/2025

0873012

FIAT SEDICI

Goods/Services remaining:

Class 12.

Vehicles; apparatus for locomotion by land, air or water.

Class 28.

Games, toys; gymnastic and sporting articles not included in other classes; decorations for Christmas trees.

Date of Recordal of Cancellation:  
16/09/2025

## Changes/Corrections in the International Register

1849581

Advertised in Journal No: 2553 on 22/10/2025.

Correction of Goods and Services for International Trade Mark No. 1849581 recorded in the International Register on 16/10/2025.

Class 37 amended to:

Repair, restoration and maintenance of watches, jewels, spectacles, sporting articles, tableware, decorative objects, bags, luggage, suitcases, trunks, purses, card cases [wallets], clothing, footwear, headwear, clothing accessories, furniture, stationery, books, games and toys, apparatus and instruments for sound or image recording, transmitting, reproducing or processing, works of art, umbrellas and parasols, furs, leather, clocks, photographic apparatus, printing materials, bicycles, electric lighting apparatus, billiards and billiard equipment, tapestry and upholstery; upholstering; restoring and tuning musical instruments; electric apparatus installation and repair, cleaning buildings [interior], laundering and washing clothing and household linen; office machine and equipment installation, maintenance and repair; kitchen equipment installation; wallpapering and upholstery works; riveting; varnishing; diaper cleaning; dry cleaning; sharpening of knives; building of fair stalls and shops; repair of locks;

housework services [cleaning services]; customization of automobile bodies; hardscaping services; assembly services relating to the installation of furniture; joinery services [repairing woodworks]; deodorizing and sanitizing services for upholstery.

1814581

Advertised in Journal Number 2530 on 4 December 2024.

Limitation received from the International Bureau amending Class 30 as follows:

Class 30: Biscuits; cakes; candy; chocolate; cookies; marshmallows; pastries; pretzels coated in confectionery; sorbets; wafers; candy bars; chewing gum; chocolate confectionery; confectionery made of sugar; edible ices; edible fruit ices; gummy candies; hard candy; ice cream; jelly confectionery; fruit jelly candy; gelatin-based chewy candies.

1870024

Advertised in Journal No. 2554 on 05 November 2025, the following translation was omitted.

Translation: Yi means foreign, xiang means land, hao means good, ju means homes.

Trnsliteration: The whole mark means good homes in foreign land. Received.

## Errata

### Applications withdrawn under Section 45(2) of the 1996 Act

271966

In Journal No. 2554 dated 05/11/2025 under the heading "Applications withdrawn under Section 45(2) of the 1996 Act" Trade Mark No. 271966 appeared in error.