

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7055718

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PREMIUM GENETICS (UK) LIMITED | 04/30/2019 |
| RECEIVING PARTY DATA | |
| Name: | ABS GLOBAL, INC. |
| Street Address: | 1525 RIVER ROAD |
| City: | DEFOREST |
| State/Country: | WISCONSIN |
| Postal Code: | 53532 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 17412789 |
| Application Number: | 17458947 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| Correspondent Name: | NGUYEN & TARBET LLC |
| Address Line 1: | 4199 CAMPUS DRIVE SUITE 550 |
| Address Line 4: | IRVINE, CALIFORNIA 92612 |
| ATTORNEY DOCKET NUMBER: | GA-1-2004-US23, 24 (3) |
| NAME OF SUBMITTER: | QUAN NGUYEN |
| SIGNATURE: | /Quan Nguyen/ |
| DATE SIGNED: | 12/03/2021 |
| Total Attachments: 11 | |
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Exhibit A

ASSIGNMENT OF PATENTS

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, [Premium Genetics (UK) Limited, a United Kingdom private limited company ("**Seller**"), hereby sells, assigns, transfers, and conveys to ABS Global, Inc., a Delaware business corporation ("**Buyer**"), pursuant to the Patent Acquisition Agreement dated as of 30 April, 2019 by and between Seller and Buyer, all right, title, and interest in and to the patents and patent applications set forth on Schedule 1, attached hereto and incorporated by this reference herein, together with all claims and causes of action with respect to any of the foregoing, including without limitation all rights to and claims for damages, restitution, and injunctive and other legal and equitable relief for past, present, and future infringement, misappropriation, violation, breach, or default, and all other rights, privileges, and protections of any kind whatsoever of Seller accruing under any of the foregoing provided by any applicable law, treaty, or other international convention.

Seller hereby authorizes the Commissioner for Patents in the United States Patent and Trademark Office and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this Assignment of Patents upon request by Buyer.

IN WITNESS WHEREOF, the undersigned has caused this Assignment of Patents to be executed on this 30 day of April, 2019 by its duly authorized officer.

Premium Genetics (UK) Limited

By: _____

Name: Denis Noonan

Title: Director

ABS Global, Inc.

By:  _____

Name: Nate Zwald

Title: Chief Operating Officer

Exhibit A

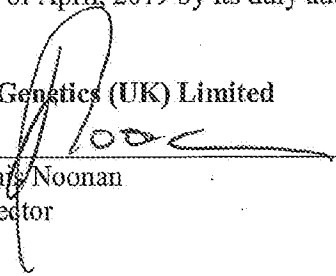
ASSIGNMENT OF PATENTS

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, [Premium Genetics (UK) Limited, a United Kingdom private limited company ("Seller"), hereby sells, assigns, transfers, and conveys to ABS Global, Inc., a Delaware business corporation ("Buyer"), pursuant to the Patent Acquisition Agreement dated as of 30 April, 2019 by and between Seller and Buyer, all right, title, and interest in and to the patents and patent applications set forth on Schedule I, attached hereto and incorporated by this reference herein, together with all claims and causes of action with respect to any of the foregoing, including without limitation all rights to and claims for damages, restitution, and injunctive and other legal and equitable relief for past, present, and future infringement, misappropriation, violation, breach, or default, and all other rights, privileges, and protections of any kind whatsoever of Seller accruing under any of the foregoing provided by any applicable law, treaty, or other international convention.

Seller hereby authorizes the Commissioner for Patents in the United States Patent and Trademark Office and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this Assignment of Patents upon request by Buyer.

IN WITNESS WHEREOF, the undersigned has caused this Assignment of Patents to be executed on this 30 day of April, 2019 by its duly authorized officer.

Premium Genetics (UK) Limited

By: 
Name: Denis Noonan
Title: Director

ABS Global, Inc.

By: _____
Name: Nate Zwald
Title: Chief Operating Officer

Schedule 1
Assigned Patents

Patents

| Title | Jurisdiction | Patent Number | Issue Date |
|---|----------------------|---------------|------------|
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 7118676 | 10/10/2006 |
| MULTIPLE LAMINAR FLOW-BASED RATE ZONAL OR ISOPYCNIC SEPARATION WITH HOLOGRAPHIC OPTICAL TRAPPING OF BLOOD CELLS AND OTHER STATIC COMPONENTS | United States - (US) | 7,150,834 | 12/19/2006 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | United States - (US) | 7241988 | 7/10/2007 |
| METHOD AND APPARATUS FOR SORTING CELLS | United States - (US) | 7355696 | 4/8/2008 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 7402131 | 7/22/2008 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | United States - (US) | 7482577 | 1/27/2009 |
| METHOD AND APPARATUS FOR SORTING CELLS | United States - (US) | 7545491 | 6/9/2009 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 7699767 | 4/20/2010 |
| MULTIPLE LAMINAR FLOW-BASED RATE ZONAL OR ISOPYCNIC SEPARATION WITH HOLOGRAPHIC OPTICAL TRAPPING OF BLOOD CELLS AND OTHER STATIC COMPONENTS | United States - (US) | 7704395 | 4/27/2010 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 8158927 | 4/17/2012 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 8653442 | 2/18/2014 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR IDENTIFICATION | United States - (US) | 8933395 | 1/13/2015 |
| MICROFLUIDIC CHIP | United States - (US) | 8961904 | 2/24/2015 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR IDENTIFICATION | United States - (US) | 9000357 | 4/7/2015 |
| METHOD OF IDENTIFYING COMPONENTS IN A FLUID MIXTURE | United States - (US) | 9140690 | 9/22/2015 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 9335295 | 5/10/2016 |
| Methods for staining cells for identification and sorting | United States - (US) | 9,453,849 | 9/27/2016 |
| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | United States - (US) | 9,588,100 | 3/7/2017 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 9,977,401 | 5/22/2018 |
| CYTOMETER SPERM SEX SENSING APPARATUS WITH AN AVALANCHE PHOTODIODE | United States - (US) | 10,069,027 | 9/4/2018 |

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| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 10216144 | 2/26/2019 |
| METHOD AND APPARATUS FOR SORTING CELLS | United States - (US) | RE46992 | 8/14/2018 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Turkey - (TR) | 1573641 | 6/26/2013 |
| System and method of sorting materials using holographic laser steering | Turkey - (TR) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Turkey - (TR) | 2287858 | 2/23/2011 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Switzerland - (CH) | 1663460 | 7/8/2015 |
| METHOD AND APPARATUS FOR SORTING CELLS | Switzerland - (CH) | 1846748 | 10/24/2007 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Switzerland - (CH) | 2911158 | 12/6/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Spain - (ES) | 1573641 | 6/26/2013 |
| METHOD AND APPARATUS FOR SORTING CELLS | Spain - (ES) | 1846748 | 10/24/2007 |
| Method and apparatus for sorting cells | Spain - (ES) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Spain - (ES) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Spain - (ES) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Spain - (ES) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Spain - (ES) | 2889879 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Spain - (ES) | 2911158 | 12/6/2017 |
| Methods for sexing non-human mammals | New Zealand - (NZ) | 529937 | 1/12/2006 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Netherlands - (NL) | 1573641 | 6/26/2013 |
| Method and apparatus for sorting cells | Netherlands - (NL) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Netherlands - (NL) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Netherlands - (NL) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Netherlands - (NL) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Netherlands - (NL) | 2889879 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Netherlands - (NL) | 2911158 | 12/6/2017 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Liechtenstein - (LI) | 1663460 | 7/8/2015 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING | Japan - (JP) | 4666348 | 4/6/2011 |

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| HOLOGRAPHIC LASER STEERING | | | |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Japan - (JP) | 5046645 | 10/10/2012 |
| Method and apparatus for sorting cells | Japan - (JP) | 5086101 | 11/28/2012 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Japan - (JP) | 5160622 | 3/13/2013 |
| APPARATUS AND METHOD FOR PURIFYING/SEPARATING PARTICLE | Japan - (JP) | 5250674 | 4/19/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Japan - (JP) | 5789178 | 8/7/2015 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Netherlands - (NL) | 6154425 | 6/9/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Italy - (IT) | 1573641 | 6/26/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Italy - (IT) | 1663460 | 7/8/2015 |
| METHOD AND APPARATUS FOR SORTING CELLS | Italy - (IT) | 1846748 | 10/24/2007 |
| Method and apparatus for sorting cells | Italy - (IT) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Italy - (IT) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Italy - (IT) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Italy - (IT) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Italy - (IT) | 2889879 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Italy - (IT) | 502018000001371 | 12/6/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Ireland - (IE) | 1573641 | 6/26/2013 |
| Method and apparatus for sorting cells | Ireland - (IE) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Ireland - (IE) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Ireland - (IE) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Ireland - (IE) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Ireland - (IE) | 2889879 | 9/6/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Hong Kong - (HK) | 1090701 | 6/29/2012 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Hong Kong - (HK) | 1092409 | 5/27/2016 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Hong Kong - (HK) | 1098980 | 7/8/2009 |

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| METHOD AND APPARATUS FOR SORTING CELLS | Hong Kong - (HK) | 1112288 | 10/12/2012 |
| METHOD AND APPARATUS FOR SORTING CELLS | Hong Kong - (HK) | 1160222 | 4/11/2014 |
| Method and apparatus for sorting cells | Hong Kong - (HK) | 1163152 | 1/23/2015 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Hong Kong - (HK) | 1169712 | 3/3/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Great Britain - (GB) | 1573641 | 6/26/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Great Britain - (GB) | 1663460 | 7/8/2015 |
| METHOD AND APPARATUS FOR SORTING CELLS | Great Britain - (GB) | 1846748 | 10/24/2007 |
| Method and apparatus for sorting cells | Great Britain - (GB) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Great Britain - (GB) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Great Britain - (GB) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Great Britain - (GB) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Great Britain - (GB) | 2889879 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Great Britain - (GB) | 2911158 | 12/6/2017 |
| METHOD AND APPARATUS FOR SORTING CELLS | Germany - (DE) | 06720022.0 | 10/24/2007 |
| Method and apparatus for sorting cells | Germany - (DE) | 09176836.6 | 8/2/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Germany - (DE) | 60344373.7 | 6/26/2013 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Germany - (DE) | 10185539.3 | 1/15/2014 |
| System and method of sorting materials using holographic laser steering | Germany - (DE) | 60346371.1 | 6/18/2014 |
| System and method of sorting materials using holographic laser steering | Germany - (DE) | 60347667.8 | 5/27/2015 |
| System and method of sorting materials using holographic laser steering | Germany - (DE) | 60350601.1 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Germany - (DE) | 60350838.3 | 12/6/2017 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Germany - (DE) | 04783338.9 | 7/8/2015 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | France - (FR) | 3772098.4 | 6/26/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | France - (FR) | 04783338.9 | 7/8/2015 |
| METHOD AND APPARATUS FOR SORTING CELLS | France - (FR) | 06720022.0 | 10/24/2007 |
| Method and apparatus for sorting cells | France - (FR) | 09176836.6 | 8/2/2017 |
| System and method of sorting materials using holographic | France - (FR) | 10182006.6 | 1/5/2011 |

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| laser steering | | | |
| System and method of sorting materials using holographic laser steering | France - (FR) | 10182979.4 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | France - (FR) | 10185539.3 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | France - (FR) | 14192362.3 | 9/6/2017 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | France - (FR) | 15160613.4 | 12/6/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | European Patent Convention - (EP) | 3772098.4 | 6/26/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | European Patent Convention - (EP) | 04783338.9 | 7/8/2015 |
| METHOD AND APPARATUS FOR SORTING CELLS | European Patent Convention - (EP) | 06720022.0 | 10/24/2007 |
| Method and apparatus for sorting cells | European Patent Convention - (EP) | 09176836.6 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | European Patent Convention - (EP) | 10182006.6 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | European Patent Convention - (EP) | 10182979.4 | 1/5/2011 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | European Patent Convention - (EP) | 10185539.3 | 1/15/2014 |
| System and method of sorting materials using holographic laser steering | European Patent Convention - (EP) | 14192362.3 | 9/6/2017 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Denmark - (DK) | 1573641 | 6/26/2013 |
| Method and apparatus for sorting cells | Denmark - (DK) | 2166340 | 8/2/2017 |
| System and method of sorting materials using holographic laser steering | Denmark - (DK) | 2270816 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Denmark - (DK) | 2270817 | 1/5/2011 |
| System and method of sorting materials using holographic laser steering | Denmark - (DK) | 2287858 | 2/23/2011 |
| System and method of sorting materials using holographic laser steering | Denmark - (DK) | 2889879 | 9/6/2017 |
| System and method of sorting materials using holographic laser steering | China P.R. - (CN) | 1774623 | 2/1/2012 |
| Multiple laminar flow-based particle and cellular separation with laser steering | China P.R. - (CN) | 100475317 | 4/8/2009 |
| Method and apparatus for sorting cells | China P.R. - (CN) | 101189504 | 5/30/2012 |
| Method and apparatus for sorting cells | China P.R. - (CN) | 102128778 | 12/18/2013 |
| Method and apparatus for sorting cells | China P.R. - (CN) | 102212457 | 9/10/2014 |
| System and method of sorting materials using holographic laser steering | China P.R. - (CN) | 102539303 | 6/15/2016 |
| Method and apparatus for sorting cells | Brazil - (BR) | PI0607095-7 | 11/21/2017 |

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| METHOD AND APPARATUS FOR SORTING CELLS | Belgium - (BE) | 1846748 | 10/24/2007 |
| METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Belgium - (BE) | 2911158 | 12/6/2017 |
| METHOD AND APPARATUS FOR SORTING CELLS | Austria - (AT) | 1846748 | 10/24/2007 |

Patent Applications

| Title | Jurisdiction | Application/ Publication Number | Filing Date |
|---|----------------------|---------------------------------|-------------|
| FOCUSED ENERGY DEVICE FOR ENRICHMENT OF SELECTED COMPONENTS IN FLOW STREAM OF MICROFLUIDIC CHIP | United States - (US) | 61/897743 | 10/30/2013 |
| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | United States - (US) | 15/033001 | 6/18/2014 |
| Passive fluidic sorter | United States - (US) | 60/499957 | 9/4/2003 |
| Method and Apparatus for Sorting Cells | United States - (US) | 15/182582 | 6/14/2016 |
| Methods for staining cells for identification and sorting | United States - (US) | 11/048101 | 2/1/2005 |
| MICROFLUIDIC CHIP | United States - (US) | 14/579441 | 12/22/2014 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 60/435541 | 12/20/2002 |
| Passive fluidic sorter | United States - (US) | 60/511458 | 10/15/2003 |
| System and method for cell sorting using holographic optical trapping | United States - (US) | 60/399386 | 7/31/2002 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 15/191223 | 6/23/2016 |
| System and method of sorting blood cells using holographic laser steering | United States - (US) | 60/571141 | 5/14/2004 |
| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | United States - (US) | 15/387034 | 12/21/2016 |
| METHODS FOR STAINING CELLS FOR IDENTIFICATION AND STORING | United States - (US) | 15/276747 | 9/26/2016 |
| METHODS FOR STAINING CELLS FOR IDENTIFICATION AND SORTING | United States - (US) | 15/476509 | 3/31/2017 |
| METHODS AND SYSTEMS FOR ASSESSING AND/OR QUANTIFYING SPERM CELL SUBPOPULATIONS BEARING A SPECIFIC GENETIC SIGNATURE | United States - (US) | 62/553771 | 9/1/2017 |
| HYDROPHOBIC COATING FOR MICROFLUIDIC CHIPS | United States - (US) | 62/393624 | 9/12/2016 |
| METHOD AND SYSTEM FOR HYDROPHOBIC COATING OF MICROFLUIDIC CHIPS | United States - (US) | 15/702452 | 9/12/2017 |
| CYTOMETER FLUORESCENCE SENSING CIRCUITRY USING AVALANCHE PHOTODIODE | United States - (US) | 62/559336 | 9/15/2017 |
| COMPOSITIONS AND METHODS FOR IMPROVED GAMETE VIABILITY AND FUNCTION | United States - (US) | 62/578959 | 10/30/2017 |
| AUTOGATE | United States - (US) | 62/584423 | 11/10/2017 |
| SYSTEMS AND METHODS FOR PARTICLE FOCUSING IN MICROCHANNELS | United States - (US) | 62/675512 | 5/23/2018 |

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| APPARATUS AND METHOD FOR CELL KILL CONFIRMATION | United States - (US) | 62/685,614 | 6/15/2018 |
| CYTOMETER SPERM SEX SENSING APPARATUS WITH AN AVALANCHE PHOTODIODE | United States - (US) | 16/056003 | 8/6/2018 |
| METHODS AND SYSTEMS FOR ASSESSING AND/OR QUANTIFYING SPERM CELL SUBPOPULATIONS BEARING A SPECIFIC GENETIC SIGNATURE | United States - (US) | 16/121077 | 9/4/2018 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | United States - (US) | 16/239297 | 1/3/2019 |
| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | United States - (US) | 16/279430 | 2/19/2019 |
| METHOD AND SYSTEM FOR HYDROPHOBIC COATING OF MICROFLUIDIC CHIPS | Singapore - (SG) | 11201902125U | 9/12/2017 |
| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | Patent Cooperation Treaty - (WO) | PCT/IB2014/001425 | 6/18/2014 |
| METHOD AND APPARATUS FOR SORTING CELLS | Patent Cooperation Treaty - (WO) | PCT/US2006/003462 | 2/1/2006 |
| METHODS FOR SEXING NON-HUMAN MAMMALS | Patent Cooperation Treaty - (WO) | PCT/GB2000/004223 | 11/3/2000 |
| MICROFLUIDIC CHIP | Patent Cooperation Treaty - (WO) | PCT/US2013/050669 | 7/16/2013 |
| MULTIPLE LAMINAR FLOW-BASED PARTICLE AND CELLULAR SEPARATION WITH LASER STEERING | Patent Cooperation Treaty - (WO) | PCT/US2004/029053 | 9/3/2004 |
| SYSTEM AND METHOD OF SORTING MATERIALS USING HOLOGRAPHIC LASER STEERING | Patent Cooperation Treaty - (WO) | PCT/US2003/023822 | 7/31/2002 |
| METHOD AND SYSTEM FOR HYDROPHOBIC COATING OF MICROFLUIDIC CHIPS | Patent Cooperation Treaty - (WO) | PCT/IB2017/001289 | 9/12/2017 |
| METHODS AND SYSTEMS FOR ASSESSING AND/OR QUANTIFYING SEX SKEWED SPERM CELL POPULATIONS | Patent Cooperation Treaty - (WO) | PCT/IB2018/056710 | 9/3/2018 |
| CYTOMETER SPERM SEX SENSING APPARATUS WITH AN AVALANCHE PHOTODIODE | Patent Cooperation Treaty - (WO) | PCT/GB2018/052633 | 9/14/2018 |
| COMPOSITIONS AND METHODS FOR IMPROVED GAMETE VIABILITY AND FUNCTION | Patent Cooperation Treaty - (WO) | PCT/IB2018/001403 | 10/30/2018 |
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| MICROFLUIDIC SYSTEM AND METHOD WITH FOCUSED ENERGY APPARATUS | India - (IN) | 3425/DELNP/2015 | 4/23/2015 |
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