

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5484335

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SUPPLEMENT NO. 3 TO PATENT SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICRON TECHNOLOGY, INC.	04/16/2019
RECEIVING PARTY DATA	
Name:	JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT
Street Address:	10 S. DEARBORN
Internal Address:	7TH FLOOR
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603
PROPERTY NUMBERS Total: 937	
Property Type	Number
Patent Number:	8195431
Patent Number:	10153178
Patent Number:	10163507
Patent Number:	10163826
Application Number:	15571232
Application Number:	16112133
Application Number:	16119715
Application Number:	16121448
Application Number:	16128017
Application Number:	16130681
Application Number:	16130682
Application Number:	16133549
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Application Number:	16218267
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Application Number:	16231224
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PCT Number:	US1855410

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PCT Number:	US1855844
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PCT Number:	US1855852
PCT Number:	US1855857
PCT Number:	US1855866
PCT Number:	US1856332
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PCT Number:	US1856871
PCT Number:	US1857859
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PCT Number:	US1863138
PCT Number:	US1863669
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PCT Number:	US1913026
PCT Number:	US1913522
PCT Number:	US1913613
PCT Number:	US1913765
PCT Number:	US1914138
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PCT Number:	US1915671
PCT Number:	US1915678
PCT Number:	US1915683
PCT Number:	US1915917
PCT Number:	US1916009
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PCT Number:	US1916678
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PCT Number:	US1917707
PCT Number:	US1918820
PCT Number:	US1918823
PCT Number:	US1918946
PCT Number:	US1919126
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PCT Number:	US1923377
PCT Number:	US1923886
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PCT Number:	US1925759
PCT Number:	US1925935

CORRESPONDENCE DATA

Fax Number: (650)251-5002

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.

Phone: 6502515027

Email: jnull@stblaw.com

Correspondent Name: MARCELA ROBLEDO

Address Line 1: 2475 HANOVER STREET

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER: 509265/2155

NAME OF SUBMITTER: J. JASON MULL

SIGNATURE: /J. Jason Mull/

DATE SIGNED: 04/19/2019

Total Attachments: 41

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SUPPLEMENT NO. 3 TO PATENT SECURITY AGREEMENT

This Supplement No. 3, dated as of April 16, 2019 (this "**Supplement**"), to the Patent Security Agreement (as amended, amended and restated, supplemented or otherwise modified from time to time, the "**Patent Security Agreement**"), dated as of July 3, 2018, is made by MICRON TECHNOLOGY, INC., a Delaware corporation (the "**Grantor**"), in favor of JPMORGAN CHASE BANK, N.A., in its capacity as collateral agent (the "**Collateral Agent**") for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, the Grantor has entered into a Credit Agreement, dated as of July 3, 2018 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "**Credit Agreement**") with the Lenders party thereto and the Collateral Agent, as administrative agent and collateral agent.

WHEREAS, as a condition precedent to the making of the Loans, the Grantor has executed and delivered that certain Guarantee and Collateral Agreement, dated as of July 3, 2018 to the Collateral Agent (as amended, amended and restated, supplemented or otherwise modified from time to time, the "**Security Agreement**"). Terms defined in the Security Agreement and not otherwise defined herein are used herein as defined in the Security Agreement. Terms defined in the Credit Agreement and not otherwise defined herein or in the Security Agreement are used herein as defined in the Credit Agreement.

WHEREAS, under the terms of the Security Agreement, the Grantor has granted to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in, among other property, all Intellectual Property of the Grantor constituting Collateral and has executed the Patent Security Agreement with respect to Patents constituting Material Intellectual Property for recording with the U.S. Patent and Trademark Office.

WHEREAS, pursuant to Section 5.3(c) of the Security Agreement, following the acquisition of an interest in any After-Acquired Material Intellectual Property, the Grantor shall provide written notice to the Collateral Agent identifying the registered or applied-for Patents, Trademarks and/or Copyrights that were not as of the date of the Security Agreement a part of the Material Intellectual Property, including any such After-Acquired Material Intellectual Property, and such notice shall include all such new After-Acquired Material Intellectual Property, and the Grantor shall execute and deliver to the Collateral Agent an IP Domestic Security Agreement Supplement covering such Intellectual Property, which IP Domestic Security Agreement Supplement shall be recorded with the U.S. Patent and Trademark Office, the U.S. Copyright Office and/or any other U.S. governmental authorities necessary to perfect the security interest thereunder in any such Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor agrees as follows:

Section 1. Grant of Security. The Grantor hereby grants to the Collateral Agent for the ratable benefit of the Secured Parties a security interest in the Grantor's right, title and interest in and to the following, whether now owned or hereafter acquired or arising:

(i) each Patent constituting Material Intellectual Property owned by the Grantor, including, without limitation, each such Patent referred to in Schedule 1 hereto;

(ii) all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of the Grantor accruing thereunder or pertaining thereto; and

(iii) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the foregoing, including, without limitation, all proceeds of any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages.

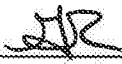
Section 2. Recordation. The Grantor authorizes and requests that the Commissioner for Patents and any other applicable government officer record this Supplement.

Section 3. Grants, Rights and Remedies. This Supplement has been executed and delivered by the Grantor for the purpose of recording the grant of security interest herein with the U.S. Patent and Trademark Office. The security interest granted hereby has been granted to the Collateral Agent in connection with the Security Agreement and is expressly subject to the terms and conditions thereof and does not modify its terms or conditions or create any additional rights or obligations for any party thereto or hereto. The Security Agreement (and all rights and remedies of the Collateral Agent thereunder) shall remain in full force and effect in accordance with its terms.

Section 4. Governing Law. This Supplement shall be governed by, and construed in accordance with, the laws of the State of New York.

IN WITNESS WHEREOF, the Grantor has caused this Supplement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

MICRON TECHNOLOGY, INC.

By: 
Name: Greg Routin
Title: Treasurer

REVIEWED
NTI Legal



Schedule 1 (Supplemental Patent Schedule as of April 16, 2019) Attached.

Schedule 1 - Supplemental Patent Schedule as of April 16, 2019

File Number	Jurisdiction	Application #	PTO Status	Patent #
2000-0982.05/US	US	16/150,527	Pending	
2002-0390.00/DE	DE	04784701.7	Issued	602004053804.3
2002-0390.00/FR	FR	04784701.7	Issued	1668689
2002-0390.00/GB	GB	04784701.7	Issued	1668689
2002-1418.00/DE	DE	04817439.5	Issued	602004053560.5
2002-1418.00/FR	FR	04817439.5	Issued	1685445
2002-1418.00/GB	GB	04817439.5	Issued	1685445
2004-0499.01/EP	EP	18209605.7	Pending	
2004-1067.00/DE	DE	06736622.9	Allowed	
2004-1067.00/GB	GB	06736622.9	Allowed	
2005-0508.00/DE	DE	06813368.5	Issued	602006057373.1
2005-0508.00/FR	FR	06813368.5	Issued	1941544
2005-0508.00/GB	GB	06813368.5	Issued	1941544
2006-0675.04/US	US	16/138,074	Pending	
2006-0847.02/US	US	16/378,260	Pending	
2006-0951.03/US	US	15/787,041	Issued	10163826
2006-0951.04/US	US	16/191,358	Pending	
2006-1058.00/DE	DE	08870941.5	Issued	2232554
2006-1058.01/EP	EP	18185689.9	Pending	
2006-1249.02/US	US	16249369	Pending	
2006-1282.00/DE	DE	08795536.5	Issued	2198368
2006-1282.00/FR	FR	08795536.5	Issued	2198368
2006-1282.00/GB	GB	08795536.5	Issued	2198368
2007-0597.00/DE	DE	08840720.0	Issued	2201599
2007-0597.00/FR	FR	08840720.0	Issued	2201599
2007-0597.00/GB	GB	08840720.0	Issued	2201599
2007-0597.00/NL	NL	08840720.0	Issued	2201599
2007-0689.00/DE	DE	09719271.0	Issued	60 2009 056 939.2
2007-0689.00/GB	GB	09719271.0	Issued	2253014
2007-1042.00/DE	DE	08848669.1	Issued	2229653
2007-1042.00/FR	FR	08848669.1	Issued	2229653
2007-1042.00/GB	GB	08848669.1	Issued	2229653
2008-0113.00/DE	DE	10739070.0	Issued	2394272
2008-0113.00/FR	FR	10739070.0	Issued	2394272
2008-0113.00/GB	GB	10739070.0	Issued	2394272
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2008-0280.05/US	US	16/298,313	Pending	
2008-0377.00/DE	DE	09802066.2	Issued	2386093
2008-0377.00/FR	FR	09802066.2	Issued	2386093
2008-0377.00/GB	GB	09802066.2	Issued	2386093
2008-0377.01/US	US	16/249,682	Pending	

Schedule 1 - Supplemental Patent Schedule as of April 16, 2019

File Number	Jurisdiction	Application #	PTO Status	Patent #
2008-0378.00/DE	DE	09802067.0	Issued	2386080
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2008-0378.00/GB	GB	09802067.0	Issued	2386080
2008-0439.03/US	US	16/247,244	Pending	
2008-0488.00/DE	DE	09802068.8	Issued	2386081
2008-0488.00/FR	FR	09802068.8	Issued	2386081
2008-0488.00/GB	GB	09802068.8	Issued	2386081
2008-0583.04/US	US	16/285,081	Pending	
2009-0173.00/DE	DE	11742607.2	Issued	2537184
2009-0173.00/FR	FR	11742607.2	Issued	2537184
2009-0173.00/GB	GB	11742607.2	Issued	2537184
2009-0186.03/US	US	16/280,872	Pending	
2009-0296.03/US	US	16/357,583	Pending	
2009-0563.00/GB	GB	11822243.9	Issued	2612326
2010-0147.00/DE	DE	11834802.8	Issued	2630659
2010-0147.00/FR	FR	11834802.8	Issued	2630659
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2010-0203.00/FR	FR	11793185.7	Issued	2580659
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2010-0278.05/US	US	16/377,871	Pending	
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2010-0485.00/NL	NL	12774647.7	Issued	2700013
2010-0507.02/US	US	16/134,813	Pending	
2010-0622.03/US	US	16/362,082	Pending	
2010-0650.00/DE	DE	12828784.4	Issued	2748821
2010-0650.00/FR	FR	12828784.4	Issued	2748821
2010-0650.00/GB	GB	12828784.4	Issued	2748821
2010-0650.01/EP	EP	19150644.3	Pending	
2010-0676.00/DE	DE	12781748.4	Issued	2707879
2010-0676.00/FR	FR	12781748.4	Issued	2707879
2010-0676.00/GB	GB	12781748.4	Issued	2707879
2010-0676.01/EP	EP	19159188.2	Pending	
2010-0799.02/US	US	16283645	Pending	
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2010-0864.00/FR	FR	12724251.9	Issued	2715421
2010-0864.00/GB	GB	12724251.9	Issued	2715421
2011-0003.04/US	US	16/273,579	Pending	

Schedule 1 - Supplemental Patent Schedule as of April 16, 2019

File Number	Jurisdiction	Application #	PTO Status	Patent #
2011-0044.00/DE	DE	12742484.4	Issued	2671162
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2011-0044.00/GB	GB	12742484.4	Issued	2671162
2011-0054.00/DE	DE	12820734.7	Issued	2740218
2011-0054.00/FR	FR	12820734.7	Issued	2740218
2011-0054.00/GB	GB	12820734.7	Issued	2740218
2011-0112.04/US	US	16/148,947	Allowed	
2011-0237.03/US	US	16375701	Pending	
2011-0304.02/US	US	16/363,624	Pending	
2011-0399.00/DE	DE	13762035.7	Allowed	
2011-0399.00/FR	FR	13762035.7	Allowed	
2011-0399.00/GB	GB	13762035.7	Allowed	
2011-0444.02/US	US	16/185,161	Pending	
2011-0458.01/US	US	16/276,443	Pending	
2011-0571.04/US	US	16/246,009	Pending	
2011-0599.01/KR	KR	10-2014-7029821	Pending	
2011-0666.02/TW	TW	107136222	Pending	
2011-0666.02/US	US	16/378,090	Pending	
2011-0751.00/DE	DE	12801693.8	Issued	2791854
2011-0751.00/FR	FR	12801693.8	Issued	2791854
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2011-0882.00/NL	NL	13753241.2	Issued	2891180
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2012-0014.00/DE	DE	13807860.5	Issued	2862172
2012-0014.00/FR	FR	13807860.5	Issued	2862172
2012-0014.00/GB	GB	13807860.5	Issued	2862172
2012-0036.02/US	US	16/162,195	Pending	
2012-0079.03/US	US	16/377,897	Pending	
2012-0090.02/US	US	16/247,996	Pending	
2012-0204.03/US	US	16/272,945	Pending	

Schedule 1 - Supplemental Patent Schedule as of April 16, 2019

File Number	Jurisdiction	Application #	PTO Status	Patent #
2012-0256.00/DE	DE	13878329.5	Issued	2972888
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2012-0256.00/GB	GB	13878329.5	Issued	2972888
2012-0262.02/US	US	16/244,702	Pending	
2012-0298.01/US	US	16/284,946	Pending	
2012-0308.02/US	US	16/244,627	Pending	
2012-0342.00/DE	DE	60 2015 023 214.3	Issued	3103134
2012-0342.00/FR	FR	15746036.1	Issued	3103134
2012-0342.00/GB	GB	15746036.1	Issued	3103134
2012-0354.00/DE	DE	14741065.8	Issued	2946303
2012-0354.00/FR	FR	14741065.8	Issued	2946303
2012-0354.00/GB	GB	14741065.8	Issued	2946303
2012-0413.02/US	US	16/136,068	Pending	
2012-0448.03/US	US	16/270,495	Pending	
2012-0454.00/DE	DE	14749460.3	Issued	2954556
2012-0454.00/GB	GB	14749460.3	Issued	2954556
2012-0524.03/US	US	16/190,627	Pending	
2012-0524.04/US	US	16/375,764	Pending	
2012-0557.02/US	US	16/361,445	Pending	
2012-0632.00/DE	DE	14770419.1	Issued	2972914
2012-0632.00/GB	GB	14770419.1	Issued	2972914
2012-0659.05/US	US	16/137,309	Allowed	
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2012-0672.00/FR	FR	14820123.9	Issued	3017450
2012-0672.00/GB	GB	14820123.9	Issued	3017450
2012-0694.02/US	US	16/279,590	Pending	
2012-0761.03/US	US	16/138,159	Pending	
2012-0813.00/DE	DE	14800773.5	Allowed	
2012-0813.00/FR	FR	14800773.5	Allowed	
2012-0813.00/GB	GB	14800773.5	Allowed	
2012-0833.01/CN	CN	201910163267.5	Pending	
2013-0028.03/US	US	16/275,038	Pending	
2013-0084.01/JP	JP	2018-165732	Pending	
2013-0084.01/KR	KR	10-2018-7036735	Pending	
2013-0122.05/US	US	16/253,750	Pending	
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2013-0159.00/DE	DE	14844707.1	Issued	602014042535.6

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File Number	Jurisdiction	Application #	PTO Status	Patent #
2013-0159.00/FR	FR	14844707.1	Issued	3044816
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2013-0163.01/CN	CN	201910003108.9	Pending	
2013-0192.02/US	US	16/384,037	Pending	
2013-0193.02/US	US	16/368,280	Pending	
2013-0260.00/DE	DE	14840993.1	Issued	3039713
2013-0260.00/GB	GB	14840993.1	Issued	3039713
2013-0471.01/KR	KR	10-2019-7008435	Pending	
2013-0471.01/SG	SG	10201808497W	Pending	
2013-0488.01/KR	KR	10-2018-7038032	Pending	
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2014-0026.02/US	US	15/655,736	Issued	10,153,178
2014-0028.01/KR	KR	10-2018-7027305	Pending	
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2014-0127.04/US	US	16184719	Pending	
2014-0270.00/DE	DE	15841574.5	Issued	602015026930.6
2014-0270.00/FR	FR	15841574.5	Issued	3195351

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File Number	Jurisdiction	Application #	PTO Status	Patent #
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2014-0606.00/EP	EP	17767514.7	Pending	
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2014-0665.00/CN	CN	201780025520.X	Pending	
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File Number	Jurisdiction	Application #	PTO Status	Patent #
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File Number	Jurisdiction	Application #	PTO Status	Patent #
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2015-0290.00/CN	CN	201780016434.2	Pending	
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2015-0312.00/KR	KR	10-2018-7025746	Pending	
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2015-0391.00/EP	EP	17820949.0	Pending	
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2015-0447.03/US	US	16266715	Pending	
2015-0457.00/CN	CN	201780029836.6	Pending	
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2015-0568.00/EP	EP	17834995.7	Pending	
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2015-0572.00/EP	EP	17851297.6	Pending	
2015-0578.00/CN	CN	201780053024.5	Pending	
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2015-0638.00/EP	EP	17835082.3	Pending	
2015-0643.00/CN	CN	201780052681.8	Pending	
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2015-0661.00/CN	CN	201780044631.5	Pending	
2015-0661.00/EP	EP	17831548.7	Pending	
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2016-0251.00/CN	CN	201780052426.3	Pending	
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2016-0284.00/EP	EP	17847169.4	Pending	
2016-0284.00/KR	KR	10-2019-7004002	Pending	
2016-0285.00/PC	WO	PCT/US19/25648	Pending	
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2016-0290.00/EP	EP	18209507.5	Pending	
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2016-0290.00/SG	SG	10201810518W	Pending	
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2016-0294.00/EP	EP	17793026.0	Pending	
2016-0294.00/KR	KR	10-2018-7034719	Issued	10-1963253
2016-0325.00/SG	SG	11201902707W	Pending	

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2016-0354.00/TW	TW	107127992	Pending	
2016-0370.01/US	US	16/357,652	Pending	
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2016-0395.01/US	US	16/170,849	Pending	
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2016-0497.00/TW	TW	107119909	Pending	
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2016-0548.02/US	US	16/276,533	Pending	
2016-0623.01/US	US	16/273,913	Pending	
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2016-0808.00/PC	WO	PCT/US18/55662	Pending	
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2016-0865.00/TW	TW	107127534	Pending	

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2016-0868.00/PC	WO	PCT/US1851544	Pending	
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2016-0879.02/US	US	16/379,585	Pending	
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2017-0027.01/US	US	16250919	Pending	
2017-0030.00/PC	WO	PCT/US18/53578	Pending	
2017-0030.00/TW	TW	107134686	Pending	
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2017-0062.00/PC	WO	PCT/US2018/065738	Pending	
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2017-0096.00/PC	WO	PCT/US2019/019144	Pending	
2017-0096.00/US	US	16/282,868	Pending	
2017-0104.00/PC	WO	PCT/US18/56871	Pending	
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2017-0107.00/PC	WO	PCT/US2019/019793	Pending	
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2017-0123.01/US	US	16/294,640	Pending	
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2017-0145.01/US	US	16256850	Pending	
2017-0153.00/TW	TW	107114135	Pending	

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2017-0353.00/PC	WO	PCT/US18/50738	Pending	
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2017-0589.00/PC	WO	PCT/US18/55844	Pending	
2017-0590.00/PC	WO	PCT/US18/55847	Pending	
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2017-0724.00/PC	WO	PCT/US19/14982	Pending	
2017-0725.00/PC	WO	PCT/US19/14036	Pending	
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2017-0793.00/PC	WO	PCT/US18/53810	Pending	
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2017-0803.00/PC	WO	PCT/CN2018/102762	Pending	
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2017-0815.00/PC	WO	PCT/US19/18823	Pending	
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2017-0821.00/PC	WO	PCT/US2019/021169	Pending	
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2017-0840.00/US	US	16/151,274	Pending	
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2017-1009.00/CN	CN	201910006581.2	Pending	
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2017-1039.00/PC	WO	PCT/US2018/066653	Pending	
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2017-1046.00/PC	WO	PCT/US19/25379	Pending	

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2017-1084.00/US	US	16/134,899	Pending	
2017-1096.00/PC	WO	PCT/US19/16824	Pending	
2017-1097.00/PC	WO	PCT/US2019/024201	Pending	
2017-1100.00/PC	WO	PCT/US2019/013613	Pending	
2017-1101.00/US	US	16/170,748	Pending	
2017-1103.00/PC	WO	PCT/US2019/023502	Pending	
2017-1104.00/PC	WO	PCT/US2019/022665	Pending	
2017-1105.00/PC	WO	PCT/US2019/021960	Pending	
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2017-1107.00/PC	WO	PCT/US2019/023054	Pending	
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2017-1117.00/PC	WO	PCT/US19/21039	Pending	
2017-1118.00/PC	WO	PCT/US19/21239	Pending	
2017-1126.00/PC	WO	PCT/US19/25636	Pending	
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2017-1145.00/PC	WO	PCT/US19/14051	Pending	
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2017-1148.00/US	US	16/138,334	Pending	
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2017-1151.00/US	US	16/193,126	Pending	
2017-1153.00/PC	WO	PCT/US2019/025134	Pending	
2017-1155.00/US	US	16/170,423	Pending	
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2017-1256.00/PC	WO	PCT/US18/63669	Pending	
2017-1257.00/PC	WO	PCT/US19/16689	Pending	
2017-1263.00/US	US	16/248,248	Pending	
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2017-1268.00/US	US	16/164,429	Pending	
2017-1278.00/PC	WO	PCT/US19/25490	Pending	
2017-1280.00/PC	WO	PCT/US19/17104	Pending	
2017-1281.00/PC	WO	PCT/US19/17333	Pending	
2017-1289.00/PC	WO	PCT/US2019/013026	Pending	
2017-1292.00/PC	WO	PCT/US19/14765	Pending	
2017-1295.00/PC	WO	PCT/US19/14774	Pending	
2017-1302.00/CN	CN	201811015026.8	Pending	
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2018-0002.00/PR	US	62/785,154	Pending	
2018-0003.00/US	US	16/139,816	Pending	
2018-0004.00/PC	WO	PCT/US19/24533	Pending	
2018-0005.00/PC	WO	PCT/US19/24531	Pending	
2018-0013.00/US	US	16213362	Pending	
2018-0014.00/PC	WO	PCT/US2019/015625	Pending	
2018-0014.00/TW	TW	108104090	Pending	
2018-0015.00/PC	WO	PCT/US2019/015917	Pending	
2018-0015.00/TW	TW	08104092	Pending	
2018-0016.00/PC	WO	PCT/US2019/016009	Pending	
2018-0016.00/TW	TW	108104311	Pending	
2018-0017.00/PC	WO	PCT/US2019/016117	Pending	
2018-0017.00/TW	TW	108104258	Pending	
2018-0018.00/PC	WO	PCT/US2019/016854	Pending	
2018-0018.00/TW	TW	108104256	Pending	
2018-0019.00/PC	WO	PCT/US2019/016623	Pending	
2018-0019.00/TW	TW	108104257	Pending	
2018-0022.00/PC	WO	PCT/US2019/016831	Pending	
2018-0022.00/TW	TW	108104091	Pending	
2018-0025.00/PC	WO	PCT/US19/19562	Pending	
2018-0030.00/US	US	16/295,829	Pending	

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2018-0032.00/US	US	16/295,845	Pending	
2018-0037.00/US	US	16/295,857	Pending	
2018-0038.00/US	US	16/231,106	Pending	
2018-0039.00/US	US	16/231,224	Pending	
2018-0040.00/US	US	16/142,035	Pending	
2018-0041.00/US	US	16/142,013	Pending	
2018-0042.00/US	US	16/142,025	Pending	
2018-0046.00/PC	WO	PCT/US19/21683	Pending	
2018-0053.00/PC	WO	PCT/US19/19651	Pending	
2018-0055.00/US	US	16/177,985	Pending	
2018-0056.00/PR	US	62/743059	Pending	
2018-0057.00/US	US	16/182,399	Pending	
2018-0069.00/CN	CN	201811597438.7	Pending	
2018-0071.00/US	US	16/171,442	Pending	
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2018-0081.00/US	US	16/214,420	Pending	
2018-0088.00/PC	WO	PCT/US2019/024206	Pending	
2018-0090.00/PC	WO	PCT/US19/23168	Pending	
2018-0101.00/CN	CN	201910186914.4	Pending	
2018-0102.00/PC	WO	PCT/US19/18946	Pending	
2018-0112.00/US	US	16/214,326	Pending	
2018-0113.00/PC	WO	PCT/US2019/025149	Pending	
2018-0115.00/PC	WO	PCT/US2019/022403	Pending	
2018-0117.00/US	US	16/150,996	Pending	
2018-0121.00/US	US	16/142,095	Pending	
2018-0122.00/US	US	16/142,172	Pending	
2018-0123.00/US	US	16/142,236	Pending	
2018-0125.00/US	US	16/142,135	Pending	
2018-0126.00/US	US	16/142,590	Pending	
2018-0130.00/US	US	16/232,267	Pending	
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2018-0135.00/PC	WO	PCT/US2019/016843	Pending	
2018-0135.00/TW	TW	108104255	Pending	
2018-0138.00/PC	WO	PCT/US19/13841	Pending	
2018-0138.00/US	US	16/162,905	Pending	
2018-0139.00/PC	WO	PCT/US19/14205	Pending	
2018-0139.00/US	US	16/166,624	Pending	
2018-0140.00/PC	WO	PCT/US19/14216	Pending	
2018-0141.00/PC	WO	PCT/US19/14827	Pending	
2018-0141.00/US	US	16/157,900	Pending	

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File Number	Jurisdiction	Application #	PTO Status	Patent #
2018-0142.00/PC	WO	PCT/US19/15361	Pending	
2018-0142.00/US	US	16167189	Pending	
2018-0145.00/PC	WO	PCT/US19/14275	Pending	
2018-0146.00/PC	WO	PCT/US19/14285	Pending	
2018-0147.00/PR	US	62/785,136	Pending	
2018-0149.00/US	US	16/163,422	Pending	
2018-0151.00/US	US	16/208,065	Pending	
2018-0153.00/PR	US	62/785,150	Pending	
2018-0154.00/PR	US	62/785,142	Pending	
2018-0156.00/US	US	16/237,051	Pending	
2018-0159.00/US	US	16/137,175	Pending	
2018-0161.00/US	US	16/224,901	Pending	
2018-0163.00/US	US	16/226,713	Pending	
2018-0171.00/US	US	16152129	Pending	
2018-0172.00/PR	US	62/785,159	Pending	
2018-0174.00/US	US	16/161,230	Pending	
2018-0176.00/US	US	16150412	Pending	
2018-0177.00/US	US	16/141,457	Pending	
2018-0182.00/US	US	16/154,088	Pending	
2018-0186.00/PC	WO	PCT/US2019/015067	Pending	
2018-0195.00/PC	WO	PCT/US19/15602	Pending	
2018-0195.00/US	US	16/183,234	Pending	
2018-0203.00/US	US	16/205,755	Pending	
2018-0207.00/PC	WO	PCT/US19/25112	Pending	
2018-0212.00/PC	WO	PCT/US19/16695	Pending	
2018-0212.01/US	US	16/369,150	Pending	
2018-0227.00/US	US	16/209,007	Pending	
2018-0230.00/US	US	16/265,311	Pending	
2018-0231.00/US	US	16/139,586	Pending	
2018-0232.00/US	US	16/139,769	Pending	
2018-0233.00/US	US	16/289,866	Pending	
2018-0234.00/US	US	16/289,889	Pending	
2018-0235.00/US	US	16/139,935	Pending	
2018-0236.00/US	US	16/289,967	Pending	
2018-0237.00/US	US	16/290,110	Pending	
2018-0238.00/US	US	16/290,181	Pending	
2018-0248.00/US	US	16/121,448	Pending	
2018-0252.00/US	US	16/219,218	Pending	
2018-0254.00/PR	US	62/786,762	Pending	
2018-0254.00/US	US	16/294,469	Pending	
2018-0264.00/US	US	16/156,194	Pending	

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2018-0283.00/US	US	16152306	Pending	
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2018-0286.00/US	US	16198493	Pending	
2018-0310.00/US	US	16/161,256	Pending	
2018-0314.00/US	US	16/182,101	Pending	
2018-0321.00/US	US	16/235,765	Pending	
2018-0323.00/PC	WO	PCT/US19/17707	Pending	
2018-0323.00/TW	TW	108106413	Pending	
2018-0331.00/PR	US	62/816,480	Pending	
2018-0332.00/PR	US	62/744,907	Pending	
2018-0333.00/PR	US	62/746,250	Pending	
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2018-0344.00/PR	US	62/749,441	Pending	
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2018-0349.00/PR	US	62/771,420	Pending	
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2018-0352.00/PC	WO	PCT/US2019/026453	Pending	
2018-0355.00/US	US	16157927	Pending	
2018-0356.00/US	US	16/155,512	Pending	
2018-0357.00/US	US	16248534	Pending	
2018-0360.00/US	US	16/230,573	Pending	
2018-0361.00/PR	US	62/786,985	Pending	
2018-0364.00/US	US	16/159,027	Pending	
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2018-0379.00/US	US	16/169,593	Pending	
2018-0388.00/PC	WO	PCT/US2019/022587	Pending	
2018-0389.00/PC	WO	PCT/US2019/022576	Pending	
2018-0394.00/US	US	16/160,342	Pending	
2018-0400.00/US	US	16/160,074	Pending	
2018-0409.00/US	US	16/192,068	Pending	
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2018-0420.00/US	US	16/183,628	Pending	
2018-0425.00/US	US	16/149,961	Pending	
2018-0434.00/US	US	16/239,117	Pending	
2018-0438.00/US	US	16/214,349	Pending	
2018-0441.00/US	US	16/155,573	Pending	
2018-0443.00/US	US	16/294,792	Pending	
2018-0446.00/US	US	16/156,347	Pending	
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2018-0453.00/US	US	16/160,146	Pending	
2018-0455.00/US	US	16/214,373	Pending	
2018-0458.00/US	US	16294759	Pending	
2018-0462.00/PC	WO	PCT/US2019/023551	Pending	
2018-0468.00/US	US	16/138,867	Pending	
2018-0472.00/US	US	16194926	Pending	
2018-0485.00/US	US	16/196,113	Pending	
2018-0487.00/US	US	16255569	Pending	
2018-0492.00/US	US	16/203,320	Pending	
2018-0497.00/US	US	16/175,005	Pending	
2018-0498.00/US	US	16/150,501	Pending	
2018-0501.00/US	US	16/234,358	Pending	
2018-0503.00/US	US	16/255,458	Pending	
2018-0510.00/US	US	16177220	Pending	
2018-0514.00/US	US	16/223,057	Pending	
2018-0515.00/US	US	16/288982	Pending	
2018-0519.00/PC	WO	PCT/US19/20785	Pending	
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2018-0530.00/US	US	16/285,909	Pending	
2018-0533.00/US	US	16/159,955	Pending	
2018-0539.00/US	US	16134315	Pending	
2018-0540.00/US	US	16208766	Pending	
2018-0555.00/US	US	16/214,419	Pending	
2018-0561.00/US	US	16215929	Pending	
2018-0567.00/US	US	16/156,654	Pending	
2018-0568.00/US	US	16/156,808	Pending	
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2018-0571.00/PR	US	62/783,388	Pending	
2018-0580.00/US	US	16/210,730	Pending	
2018-0581.00/US	US	16/167,016	Pending	

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File Number	Jurisdiction	Application #	PTO Status	Patent #
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2018-0596.00/US	US	16/140,990	Pending	
2018-0597.00/US	US	16/141,034	Pending	
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2018-0616.00/US	US	16/168,652	Pending	
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2018-0626.00/US	US	16/237,111	Pending	
2018-0628.00/PR	US	62/746728	Pending	
2018-0633.00/US	US	16/269,201	Pending	
2018-0638.00/CN	CN	201811036866.2	Pending	
2018-0639.00/CN	CN	201811036867.7	Pending	
2018-0640.00/CN	CN	201811036644.0	Pending	
2018-0643.00/CN	CN	201811014792.2	Pending	
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2018-0659.00/US	US	16/151,604	Pending	
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2018-0680.00/US	US	16/207,341	Pending	
2018-0681.00/US	US	16/237,220	Pending	
2018-0692.00/US	US	16/191,428	Pending	
2018-0693.00/US	US	16/382026	Pending	
2018-0699.00/US	US	16/228,952	Pending	
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2018-0713.00/US	US	16/236,143	Pending	
2018-0718.00/US	US	16/236,167	Pending	
2018-0721.00/US	US	16/135,877	Pending	
2018-0733.00/US	US	16/242,960	Pending	
2018-0734.00/US	US	16/211,029	Pending	
2018-0735.00/US	US	16/194946	Pending	
2018-0739.00/US	US	16/223,305	Pending	
2018-0741.00/US	US	16/276,461	Pending	
2018-0741.01/US	US	16/276,471	Pending	
2018-0741.02/US	US	16/276,489	Pending	
2018-0754.00/PC	WO	PCT/US19/25759	Pending	
2018-0765.00/PC	WO	PCT/IB2018/001463	Pending	

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2018-0770.00/US	US	16/204,089	Pending	
2018-0771.00/PC	WO	PCT/US18/56785	Pending	
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2018-0771.01/US	US	16167326	Pending	
2018-0771.02/US	US	16167340	Pending	
2018-0773.00/US	US	16/299,469	Pending	
2018-0774.00/US	US	16/226,244	Pending	
2018-0777.00/US	US	16/235,385	Pending	
2018-0778.00/US	US	16/234,397	Pending	
2018-0779.00/US	US	16/143,105	Pending	
2018-0780.00/US	US	16/183,057	Pending	
2018-0785.00/US	US	16/221,765	Pending	
2018-0788.00/IT	IT	102019000000691	Pending	
2018-0793.00/US	US	16/381,702	Pending	
2018-0794.00/US	US	16/225,559	Pending	
2018-0797.00/US	US	16/161,932	Pending	
2018-0804.00/PR	US	62/787,039	Pending	
2018-0809.00/US	US	16/183,414	Pending	
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2018-0814.00/US	US	16/220,646	Pending	
2018-0817.00/US	US	16/156,440	Pending	
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2018-0819.00/US	US	16/156,400	Pending	
2018-0825.00/US	US	16/163,720	Pending	
2018-0835.00/US	US	16/156,862	Pending	
2018-0840.00/US	US	16/225814	Pending	
2018-0841.00/US	US	16/218,267	Pending	
2018-0842.00/US	US	16/232,280	Pending	
2018-0845.00/US	US	16/232,293	Pending	
2018-0846.00/US	US	16/232,347	Pending	
2018-0847.00/US	US	16/232,359	Pending	
2018-0848.00/US	US	16/232,303	Pending	
2018-0851.00/US	US	16/232,317	Pending	
2018-0852.00/US	US	16/232,916	Pending	
2018-0854.00/PC	WO	PCT/IB2018/001408	Pending	
2018-0856.00/US	US	16/224,422	Pending	
2018-0862.00/US	US	16/202,219	Pending	
2018-0868.00/PC	WO	PCT/US19/25935	Pending	
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2018-0871.00/US	US	16/226,558	Pending	
2018-0873.00/US	US	16/235,168	Pending	

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2018-0877.00/US	US	16/228,904	Pending	
2018-0880.00/US	US	16/254,962	Pending	
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2018-0886.00/US	US	16/208,319	Pending	
2018-0889.00/US	US	16/223,506	Pending	
2018-0890.00/US	US	16/138,346	Pending	
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2018-0894.00/US	US	16/163,728	Pending	
2018-0895.00/US	US	16/262,111	Pending	
2018-0896.00/US	US	16/219,368	Pending	
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2018-0900.00/US	US	16180361	Pending	
2018-0905.00/US	US	16/172,631	Pending	
2018-0911.00/US	US	16/148,148	Pending	
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2018-0972.00/US	US	16/228,484	Pending	
2018-0974.00/US	US	16/267,115	Pending	
2018-0977.00/US	US	16236681	Pending	
2018-0978.00/US	US	16/270,112	Pending	
2018-0980.00/US	US	16/155,607	Pending	
2018-0981.00/US	US	16174871	Pending	
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2018-0984.00/US	US	16259832	Pending	
2018-0987.00/US	US	16/236,094	Pending	

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2018-0988.00/US	US	16/201,537	Pending	
2018-0989.00/US	US	16/208,165	Pending	
2018-0996.00/US	US	16/171,073	Pending	
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2018-0999.00/US	US	16/236,441	Pending	
2018-1001.00/US	US	16/169,665	Pending	
2018-1012.00/US	US	16/236,446	Pending	
2018-1013.00/US	US	16/236,449	Pending	
2018-1014.00/US	US	16/361,799	Pending	
2018-1016.00/US	US	16/363,741	Pending	
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2018-1020.00/US	US	16/209,495	Pending	
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2018-1055.00/PR	US	62/786,930	Pending	
2018-1057.00/US	US	16/221,987	Pending	
2018-1058.00/US	US	16/162,975	Pending	
2018-1061.00/PC	WO	PCT/IB2018/001464	Pending	
2018-1062.00/US	US	16/159,074	Pending	
2018-1063.00/US	US	16/235,171	Pending	
2018-1066.00/US	US	16/222,041	Pending	
2018-1067.00/US	US	16/150,618	Pending	
2018-1068.00/US	US	16/156,698	Pending	
2018-1070.00/US	US	16/176,891	Pending	
2018-1072.00/US	US	16/164,156	Pending	

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File Number	Jurisdiction	Application #	PTO Status	Patent #
2018-1074.00/US	US	16/172,624	Pending	
2018-1075.00/US	US	16/372,950	Pending	
2018-1076.00/US	US	16/205,450	Pending	
2018-1079.00/PC	WO	PCT/US19/20529	Pending	
2018-1079.00/US	US	16/290,126	Pending	
2018-1080.00/US	US	16/270,201	Pending	
2018-1092.00/US	US	16/195,045	Pending	
2018-1094.00/US	US	16/235,303	Pending	
2018-1097.00/US	US	16/234,706	Pending	
2018-1098.00/US	US	16/236,040	Pending	
2018-1100.00/US	US	16/287,850	Pending	
2018-1101.00/US	US	16/228,255	Pending	
2018-1106.00/US	US	16/185,464	Pending	
2018-1118.00/PR	US	62/804,329	Pending	
2018-1119.00/US	US	16/369,804	Pending	
2018-1120.00/US	US	16/268,092	Pending	
2018-1121.00/US	US	16/258,904	Pending	
2018-1123.00/US	US	16/237,147	Pending	
2018-1125.00/US	US	16/235,925	Pending	
2018-1131.00/US	US	16/214,007	Pending	
2018-1132.00/US	US	16/259,634	Pending	
2018-1133.00/US	US	16/364,841	Pending	
2018-1136.00/US	US	16/227,348	Pending	
2018-1137.00/US	US	16/262,700	Pending	
2018-1139.00/US	US	16/355,271	Pending	
2018-1141.00/US	US	16/183,594	Pending	
2018-1142.00/US	US	16/227,021	Pending	
2018-1143.00/US	US	16/232,185	Pending	
2018-1146.00/PC	WO	PCT/CN2018/119102	Pending	
2018-1146.00/US	US	16/321,769	Pending	
2018-1147.00/US	US	16/195,018	Pending	
2018-1151.00/US	US	16/383,862	Pending	
2018-1154.00/US	US	16/234,068	Pending	
2018-1165.00/PR	US	62/786,753	Pending	
2018-1173.00/US	US	16/230,423	Pending	
2018-1179.00/US	US	16/213,720	Pending	
2018-1182.00/US	US	16/280,570	Pending	
2018-1184.00/US	US	16/379,085	Pending	
2018-1185.00/US	US	16/233,576	Pending	
2018-1190.00/US	US	16/195,127	Pending	
2018-1191.00/US	US	16/195,071	Pending	

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2018-1192.00/US	US	16/204,656	Pending	
2018-1193.00/US	US	16/289,421	Pending	
2018-1194.00/US	US	16/218,038	Pending	
2018-1195.00/US	US	16/209,352	Pending	
2018-1196.00/US	US	16/209,393	Pending	
2018-1197.00/US	US	16/222,204	Pending	
2018-1198.00/US	US	16/222,295	Pending	
2018-1199.00/US	US	29/673,181	Pending	
2018-1205.00/US	US	16/251,241	Pending	
2018-1206.00/US	US	16/230,313	Pending	
2018-1208.00/US	US	16/250,778	Pending	
2018-1240.00/US	US	16/235,189	Pending	
2018-1251.00/US	US	16/237,163	Pending	
2018-1252.00/US	US	16/284,273	Pending	
2018-1254.00/US	US	16/366,774	Pending	
2018-1257.00/US	US	16/236,188	Pending	
2018-1260.00/US	US	16/286,992	Pending	
2018-1263.00/PR	US	62/817,863	Pending	
2018-1269.00/US	US	16/296,891	Pending	
2018-1272.00/PR	US	62/770,081	Pending	
2018-1278.00/US	US	16/169,910	Pending	
2018-1280.00/US	US	16/169,915	Pending	
2018-1281.00/US	US	16/218,889	Pending	
2018-1282.00/US	US	16/218,901	Pending	
2018-1283.00/US	US	16/169,919	Pending	
2018-1285.00/US	US	16/156,835	Pending	
2018-1286.00/US	US	16/179,072	Pending	
2018-1287.00/US	US	16/189,697	Pending	
2018-1288.00/US	US	16/248,584	Pending	
2018-1291.00/US	US	16/235,398	Pending	
2018-1296.00/US	US	16/173,557	Pending	
2018-1297.00/PR	US	62/786,764	Pending	
2018-1297.00/US	US	16/293,227	Pending	
2018-1302.00/PR	US	62/804,270	Pending	
2018-1303.00/PR	US	62/804,469	Pending	
2018-1304.00/PR	US	62/746,316	Pending	
2018-1305.00/PR	US	62/746,295	Pending	
2018-1306.00/PR	US	62/746,274	Pending	
2018-1307.00/US	US	16/220,608	Pending	
2018-1310.00/PR	US	62/746,284	Pending	
2018-1312.00/PR	US	62/746,287	Pending	

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2018-1323.00/US	US	16/277311	Pending	
2018-1331.00/US	US	16/268,818	Pending	
2018-1332.00/PR	US	62/786,949	Pending	
2018-1332.00/US	US	16/293,261	Pending	
2018-1333.00/US	US	16/215,248	Pending	
2018-1337.00/PC	WO	PCT/CN2019/075106	Pending	
2018-1340.00/US	US	16/219,292	Pending	
2018-1342.00/US	US	16/176,932	Pending	
2018-1352.00/US	US	16/215,267	Pending	
2018-1355.00/US	US	16/256,796	Pending	
2018-1358.00/US	US	16198433	Pending	
2018-1361.00/PR	US	62/787,018	Pending	
2018-1361.00/US	US	16/290,398	Pending	
2018-1362.00/US	US	16/258,296	Pending	
2018-1365.00/US	US	16262087	Pending	
2018-1366.00/US	US	16/259,131	Pending	
2018-1367.00/US	US	16/258,933	Pending	
2018-1371.00/US	US	16/275,137	Pending	
2018-1379.00/US	US	16/153,016	Pending	
2018-1391.00/US	US	16/235,407	Pending	
2018-1392.00/US	US	16/295,708	Pending	
2018-1393.00/US	US	16/235,482	Pending	
2018-1394.00/US	US	16/361,864	Pending	
2018-1397.00/US	US	16/236,876	Pending	
2018-1398.00/US	US	16/259,330	Pending	
2018-1399.00/US	US	16/220,742	Pending	
2018-1404.00/US	US	16/216,894	Pending	
2018-1409.00/US	US	16/273,733	Pending	
2018-1410.00/US	US	16/205,980	Pending	
2018-1419.00/US	US	16/236,754	Pending	
2018-1422.00/PR	US	62/787,012	Pending	
2018-1423.00/PR	US	62/734,018	Pending	
2018-1451.00/US	US	16/362,741	Pending	
2018-1452.00/US	US	16374527	Pending	
2018-1455.00/PR	US	62/786,944	Pending	
2018-1455.00/US	US	16/293,295	Pending	
2018-1457.00/US	US	16/267,488	Pending	
2018-1460.00/PR	US	62/767,780	Pending	
2018-1461.00/US	US	16/269,309	Pending	
2018-1464.00/US	US	16/235,745	Pending	
2018-1470.00/US	US	16383964	Pending	

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File Number	Jurisdiction	Application #	PTO Status	Patent #
2018-1471.00/PC	WO	PCT/IB2019/000089	Pending	
2018-1480.00/US	US	16/237,013	Pending	
2018-1481.00/US	US	16/237,115	Pending	
2018-1487.00/US	US	16/362,757	Pending	
2018-1489.00/PR	US	62/786,889	Pending	
2018-1489.00/US	US	16/267,586	Pending	
2018-1494.00/PC	WO	PCT/IB2019/000010	Pending	
2018-1508.00/US	US	16/287,162	Pending	
2018-1514.00/US	US	16/194,722	Pending	
2018-1515.00/US	US	16/204,811	Pending	
2018-1516.00/US	US	16/369,797	Pending	
2018-1535.00/US	US	16/362,792	Pending	
2018-1536.00/US	US	16/362,877	Pending	
2018-1547.00/US	US	16/372,000	Pending	
2018-1553.00/US	US	16/257,521	Pending	
2018-1565.00/US	US	16/253,485	Pending	
2018-1582.00/US	US	16/251,307	Pending	
2018-1603.00/US	US	16/274,102	Pending	
2018-1611.00/US	US	16/298,299	Pending	
2018-1613.00/US	US	16/255,142	Pending	
2018-1618.00/US	US	16/259,610	Pending	
2018-1630.00/US	US	16/294,427	Pending	
2018-1653.00/US	US	16/291,597	Pending	
2018-1656.00/US	US	16/363,103	Pending	
2018-1676.00/US	US	16/383,159	Pending	
2018-1678.00/US	US	16/363,132	Pending	
2018-1684.00/US	US	16/362,970	Pending	
2018-1685.00/US	US	16/362,828	Pending	
2018-1692.00/PC	WO	PCT/CN2018/124813	Pending	
2018-1696.00/US	US	16/256,157	Pending	
2018-1699.00/US	US	16/382,932	Pending	
2018-1705.00/US	US	16/289,444	Pending	
2018-1706.00/US	US	16/289,478	Pending	
2018-1707.00/US	US	16/289,510	Pending	
2018-1710.00/US	US	16/354,450	Pending	
2018-1711.00/US	US	16/296,044	Pending	
2018-1714.00/US	US	16/362,814	Pending	
2018-1715.00/US	US	16/362,894	Pending	
2018-1723.00/US	US	16/362,772	Pending	
2018-1724.00/US	US	16/362,854	Pending	
2018-1727.00/PR	US	62/820,548	Pending	

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2018-1729.00/US	US	16/382,449	Pending	
2018-1730.00/US	US	16/382,511	Pending	
2018-1739.00/US	US	16/358,587	Pending	
2018-1740.00/US	US	16/290,730	Pending	
2018-1742.00/US	US	16/362,916	Pending	
2018-1743.00/US	US	16/363,100	Pending	
2018-1744.00/US	US	16/362,822	Pending	
2018-1745.00/US	US	16/362,890	Pending	
2018-1746.00/US	US	16/362,976	Pending	
2018-1747.00/US	US	16/363,126	Pending	
2018-1748.00/US	US	16/363,323	Pending	
2018-1749.00/US	US	16/363,533	Pending	
2018-1750.00/US	US	16/362,786	Pending	
2018-1751.00/US	US	16/362,954	Pending	
2018-1752.00/US	US	16/362,997	Pending	
2018-1753.00/US	US	16/363,023	Pending	
2018-1754.00/US	US	16/362,790	Pending	
2018-1764.00/US	US	16/362,751	Pending	
2018-1766.00/US	US	16/237,044	Pending	
2018-1768.00/US	US	16/363,196	Pending	
2018-1769.00/US	US	16363204	Pending	
2018-1770.00/US	US	16363271	Pending	
2018-1771.00/US	US	16363060	Pending	
2018-1772.00/US	US	16363295	Pending	
2018-1773.00/US	US	16363047	Pending	
2018-1774.00/US	US	16363211	Pending	
2018-1775.00/US	US	16363069	Pending	
2018-1776.00/US	US	16363033	Pending	
2018-1779.00/US	US	16/352,551	Pending	
2018-1784.00/US	US	16363054	Pending	
2018-1800.00/US	US	16/248,685	Pending	
2018-1801.00/PR	US	62/807,520	Pending	
2018-1802.00/US	US	16363088	Pending	
2018-1808.00/PC	WO	PCT/CN2018/124807	Pending	
2018-1825.00/US	US	16/351,274	Pending	
2018-1832.00/US	US	16/249,714	Pending	
2018-1835.00/US	US	16/379,222	Pending	
2018-1838.00/US	US	16/374,188	Pending	
2018-1852.00/US	US	16/371,221	Pending	
2018-1877.00/US	US	16/358,971	Pending	
2018-1880.00/US	US	16/374,623	Pending	

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2018-1898.00/US	US	16/259,671	Pending	
2018-1929.00/US	US	16/379,635	Pending	
2018-1930.00/US	US	16/358,568	Pending	
2018-1939.00/US	US	16/286,187	Pending	
2018-1940.00/US	US	16/378,524	Pending	
2018-1973.00/US	US	16/382,856	Pending	
2018-1974.00/US	US	16/368,706	Pending	
2018-1981.00/US	US	16/375,716	Pending	
2018-2006.00/US	US	16/281,740	Pending	
2018-2014.00/US	US	16/292,074	Pending	
2018-2029.00/US	US	16/286,941	Pending	
2018-2029.01/US	US	16/287,156	Pending	
2018-2032.00/US	US	16/281,587	Pending	
2018-2051.00/US	US	16/289,053	Pending	
2019-0014.00/US	US	16/294,782	Pending	
2019-0017.00/PR	US	62/810,037	Pending	
2019-0020.00/US	US	16/271,679	Pending	
2019-0022.00/PR	US	62/812,515	Pending	
2019-0024.00/US	US	16/373,229	Pending	
2019-0025.00/US	US	16/276,481	Pending	
2019-0026.00/US	US	16/357,085	Pending	
2019-0031.00/US	US	16/371,414	Pending	
2019-0061.00/US	US	16356146	Pending	
2019-0069.00/PR	US	62/809,281	Pending	
2019-0085.00/US	US	16353962	Pending	
2019-0086.00/US	US	16353966	Pending	
2019-0107.00/US	US	16378075	Pending	
2019-0138.00/US	US	16374905	Pending	
2019-0161.00/US	US	16/374,418	Pending	
2019-0170.00/US	US	16/372,033	Pending	
2019-0171.00/US	US	16/374,613	Pending	
2019-0180.00/US	US	16/365,218	Pending	
2019-0182.00/US	US	16/365,168	Pending	
2019-0205.00/US	US	16/366,100	Pending	
2019-0233.00/US	US	16/368,728	Pending	
2019-0320.00/US	US	16374287	Pending	
2019-0321.00/US	US	16374294	Pending	
2019-0327.00/PR	US	62/816,731	Pending	
2019-0351.00/PR	US	62/817,792	Pending	
2019-0472.00/PR	US	62/830,935	Pending	
2019-0524.00/PR	US	62/826,591	Pending	

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File Number	Jurisdiction	Application #	PTO Status	Patent #
2019-0525.00/PR	US	62/826,422	Pending	
ELPA-0248.02/US	US	16/272,663	Pending	
ELPA-0377.01/US	US	16/363,961	Pending	
HYNX-0003.04/US	US	16/237,341	Pending	
ID12-3014.00/CN	CN	201780027423.4	Pending	
ID12-3014.00/JP	JP	2018-557135	Pending	
ID12-3014.00/KR	KR	10-2018-7033882	Pending	
ID14-0313.00/CN	CN	201811563899.2	Pending	
ID14-8721.00/PC	WO	PCT/US2018/065769	Pending	
IDAA-7552.00/US	US	16/171,160	Pending	
IDAB-2231.00/US	US	16/226,074	Pending	
IDF8-4827.06/US	US	16/111,746	Issued	10163507
IDF8-7456.00/DE	DE	13798041.3	Allowed	
IDF8-7456.00/FR	FR	13798041.3	Allowed	
IDF8-7456.00/GB	GB	13798041.3	Allowed	
IDF9-8515.03/US	US	16/253,111	Pending	
INOT-0055.00/US	US	12/566,974	Issued	US 8,195,431 B2
NMXN-0204.03/US	US	16/253,087	Pending	
NMXN-0227.01/DE	DE	112009005566.4	Pending	
NMXN-0262.01/US	US	16/162,266	Pending	
NMXN-0387.03/US	US	16/130,681	Pending	
NMXN-0387.04/US	US	16/130,682	Pending	
NMXN-0410.01/KR	KR	10-2017-0143204	Pending	
NMXN-0415.01/CN	CN	201710373023.0	Pending	
NMXS-0900.00/DE	DE	03425171.0	Issued	1460542
NMXS-0900.00/FR	FR	03425171.0	Issued	1460542
NMXS-0900.00/GB	GB	03425171.0	Issued	1460542
SONY-0013.02/US	US	16/189,387	Pending	