PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6830810

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
UNITED MICROELECTRONICS CORPORATION	06/18/2021

RECEIVING PARTY DATA

Name:	MARLIN SEMICONDUCTOR LIMITED
Street Address:	BRACKEN ROAD, SANDYFORD
Internal Address:	FIRST FLOOR, BLACKTHORN EXCHANGE
City:	DUBLIN
State/Country:	IRELAND
Postal Code:	D18 P3Y9

PROPERTY NUMBERS Total: 483

Property Type	Number
Patent Number:	6900678
Patent Number:	6521547
Patent Number:	6521910
Patent Number:	6570246
Patent Number:	7088623
Patent Number:	7718345
Patent Number:	7384728
Patent Number:	7157211
Patent Number:	7125645
Patent Number:	6638822
Patent Number:	6696222
Patent Number:	7264676
Patent Number:	7465640
Patent Number:	7335933
Patent Number:	6991991
Patent Number:	7638400
Patent Number:	7157343
Patent Number:	7126189
Patent Number:	7199742

TSMC-1025
TSMC Ltd.
IPR2025-01082

Property Type	Number
Patent Number:	7126322
Patent Number:	7595234
Patent Number:	7214988
Patent Number:	8592322
Patent Number:	8461649
Patent Number:	8236702
Patent Number:	8164141
Patent Number:	7825034
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Patent Number:	7518403
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Patent Number:	8062487
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Patent Number:	9337193
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Patent Number:	10134919

Property Type	Number
Patent Number:	10020404
Patent Number:	6979654
Patent Number:	6583067
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Patent Number:	8027144
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Patent Number:	10566418
Patent Number:	10102475
Patent Number:	10366756
Patent Number:	7772064
Patent Number:	8058733
Patent Number:	8110342
Patent Number:	9857508
Patent Number:	9507264
Patent Number:	10446448

Property Type	Number
Patent Number:	10153210
Patent Number:	10229995
Patent Number:	10438893
Patent Number:	10504903
Patent Number:	10461200
Patent Number:	6649512
Patent Number:	10629734
Application Number:	16836872

CORRESPONDENCE DATA

Fax Number:

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: 6138802091
Email: docketing@longitudelicensing.ie
Correspondent Name: LONGITUDE LICENSING LTD
Address Line 1: BRACKEN ROAD, SANDYFORD
Address Line 2: FIRST FLOOR, BLACKTHORN EXCHANGE
Address Line 4: DUBLIN, IRELAND D18 P3Y9

ATTORNEY DOCKET NUMBER:	UMC TO MARLIN
NAME OF SUBMITTER:	RONAN O'BYRNE
SIGNATURE:	/Ronan O'Byrne/
DATE SIGNED:	07/26/2021

Total Attachments: 22
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FORM OF ASSIGNMENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, United Microelectronics Corporation, a Taiwanese corporation, ("**Assignor**"), having a place of business at No. 3, Li-Hsin 2nd Road, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C., hereby irrevocably assigns, sells, transfers, and conveys to Marlin Semiconductor Limited., a company organized and existing under the laws of Ireland ("**Assignee**"), having a place of business at 1st Floor, Blackthorn Exchange, Bracken Road, Sandyford, Dublin D18 P3Y9, Ireland, all rights, title and interest that exist as of June 18, 2021 and may exist in the future in and to any of the following (collectively, the "***Patent Rights***"):

(a) the patent applications and patents listed in the attached Schedule A (collectively, the "***Assigned Assets***"), including all rights of priority;

(b) all patents, divisionals, continuations, continuations-in-part, continued prosecution applications, provisional applications, requests for continuing examinations, reissues, reexaminations and extensions thereof and all pending applications therefor, and any other patent or patent application related to such patent or patent application by claim of direct or indirect priority or terminal disclaimer, and all pending applications therefor, and any patents resulting therefrom for all Assigned Assets in (a) above;

(c) all foreign patents, foreign patent applications, and foreign counterparts relating to any item in any of the foregoing categories by claim of direct or indirect priority or terminal disclaimer (a) and (b), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(d) all items in any of the foregoing categories (a) through (c), whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(e) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (d), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(f) all claims and causes of action (whether known or unknown or whether currently pending, filed, or otherwise) for damages, injunctive relief, and any other remedies of any kind, accounting and information, and other secondary claims arising out of the past, current, and future infringement of the Assigned Assets and/or any item in any of the foregoing categories (b) through (e) by third parties which have accrued with Assignor or to which Assignor otherwise holds title; and

PATENT
REEL: 056991 FRAME: 0307

(g) all rights to collect royalties and other payments under or on account of any of the Assigned Assets and/or any item in any of the foregoing categories (b) through (f).

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances which may be granted upon any of the Assigned Assets in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee, do all things necessary, proper, or advisable, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights.

The terms and conditions of this assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, Assignor has caused its duly authorized representative to execute this assignment.

United Microelectronics Corporation

By: Brian H.H. Shih
Name: Brian H.H. Shih
Title: Sr. Director of Intellectual Property
Date: June 18, 2021

PATENT
REEL: 056991 FRAME: 0308

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of Brian H.H. Shih to the above ASSIGNMENT on behalf of United Microelectronics Corporation and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation if called upon to do so.

2. Brian H.H. Shih is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on June 18, 2021 to execute the above assignment document on behalf of United Microelectronics Corporation.

3. Brian H.H. Shih executed the above assignment on behalf of United Microelectronics Corporation.

I declare under penalty of perjury under the laws of the United States of America that the statements made above in this Attestation are true and correct.

EXECUTED on June 18, 2021

Signature: Yi-Chin Wu
Print Name: Yi-Chin Wu

Assignee hereby declares the acceptance of the assignment of Patent Rights.

ASSIGNEE:

Marlin Semiconductor Limited

By: _____
Name: Garrett Dempsey
Title: Director

PATENT
REEL: 056991 FRAME: 0310

SCHEDULE A

PATENTS

Index	Publication/Patent Number	Country	File Date	Publication/Issue Date	Application No.
1	US6900678	US	2001-08-16	2005-05-31	US09/682303
2	TWI163758	TW	2001-08-10	2002-09-21	TW090119702
3	CN1212707C	CN	2002-08-01	2005-07-27	CN02127453.3
4	US6521547	US	2001-09-07	2003-02-18	US09/682479
5	TWI161300	TW	2001-08-30	2002-07-21	TW090121523
6	CN1205654C	CN	2001-09-20	2005-06-08	CN1133185.2
7	US6521910	US	2001-11-02	2003-02-18	US09/682946
8	TWI164135	TW	2001-11-01	2002-09-11	TW090127193
9	US6570246	US	2002-06-12	2003-05-27	US10/064110
10	TWI303470	TW	2002-06-13	2008-11-21	TW091112965
11	CN1228839C	CN	2003-04-03	2005-11-23	CN03109117.2
12	US7088623	US	2003-10-16	2006-08-08	US10/685496
13	CN100367504C	CN	2003-10-28	2008-02-06	CN200310104651.7
14	US7718345	US	2008-04-14	2010-05-18	US12/102029
15	US7384728	US	2006-08-20	2008-06-10	US11/465811
16	US7157211	US	2004-04-05	2007-01-02	US10/708983
17	US7125645	US	2002-04-10	2003-10-16	US10/063307
18	TWI292587	TW	2002-04-03	2008-01-11	TW091106789
19	CN1316564C	CN	2002-04-11	2007-05-16	CN02105820.2
20	US6638822	US	2002-03-06	2003-10-28	US10/092998
21	TWI198613	TW	2002-02-27	2004-03-21	TW091103630
22	CN1180466C	CN	2002-12-25	2004-12-15	CN02159626.3
23	US6696222	US	2001-07-24	2004-02-24	US09/910876
24	TWI164318	TW	2001-10-16	2002-10-11	TW090125567
25	US7264676	US	2003-09-11	2007-09-04	US10/659258
26	TWI236055	TW	2003-09-05	2005-07-11	TW092124604
27	US7465640	US	2005-05-04	2008-12-16	US11/122655
28	US7335933	US	2003-11-20	2008-02-26	US10/718896
29	TWI226128	TW	2003-11-13	2005-01-01	TW092131757
30	CN100356551C	CN	2003-11-21	2007-12-19	CN200310116427.X
31	US6991991	US	2003-11-12	2006-01-31	US10/705500
32	TWI258199	TW	2003-11-07	2006-07-11	TW092131271
33	US7638400	US	2006-12-11	2009-12-29	US11/608927
34	US7157343	US	2005-03-11	2007-01-02	US11/078543
35	US7126189	US	2004-04-07	2006-10-24	US10/820601
36	TWI241023	TW	2004-03-18	2005-10-01	TW093107219
37	US7199742	US	2005-07-29	2007-04-03	US11/161302
38	US7126322	US	2005-10-19	2006-10-24	US11/163437
39	US7595234	US	2006-09-15	2009-09-29	US11/532100
40	US7214988	US	2005-09-20	2007-05-08	US11/162693
41	TWI295110	TW	2005-09-23	2008-03-21	TW094133041

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44	US8461649	US	2011-09-16	2013-06-11	US13/234159
45	US8236702	US	2008-03-05	2012-08-07	US12/042340
46	US8164141	US	2010-09-17	2012-04-24	US12/884198
47	US7825034	US	2005-10-06	2010-11-02	US11/163149
48	TWI265597	TW	2005-10-07	2006-11-01	TW094135241
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51	TWI297531	TW	2006-04-07	2008-06-01	TW095112422
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54	US7388403	US	2007-05-21	2008-06-17	US11/751041
55	TWI335722	TW	2007-05-18	2011-01-01	TW096117840
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58	US7391250	US	2007-09-02	2008-06-24	US11/849296
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60	US8076735	US	2009-10-02	2011-12-13	US12/572498
61	TWI441244	TW	2009-10-07	2014-06-11	TW098133994
62	US8519515	US	2011-04-13	2013-08-27	US13/085488
63	TWI518861	TW	2011-04-13	2016-01-21	TW100112791
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73	TWI517161	TW	2012-10-15	2016-01-11	TW101137993
74	US8873295	US	2012-11-27	2014-10-28	US13/685719
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76	US9117909	US	2014-08-28	2015-08-25	US14/470957
77	US8853015	US	2013-04-16	2014-10-07	US13/863393
78	US9305887	US	2013-06-05	2016-04-05	US13/911062
79	US8916471	US	2013-08-26	2014-12-23	US13/975382
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81	US9006805	US	2013-08-07	2015-04-14	US13/960816
82	TWI593111	TW	2013-08-06	2017-07-21	TW102128092
83	CN104347709B	CN	2013-08-09	2018-09-04	CN201310345075.9
84	US9841319	US	2013-11-19	2017-12-12	US14/083594
85	US9698122	US	2016-07-27	2017-07-04	US15/221011
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89	US9571079	US	2015-11-11	2017-02-14	US14/938827
90	TWI606322	TW	2015-06-22	2017-11-21	TW104120037
91	US9812327	US	2015-09-23	2017-11-07	US14/863177
92	US10373837	US	2017-09-14	2019-08-06	US15/705014
93	CN106486529A	CN	2015-08-24	2017-03-08	CN201510521058.5
94	US9666680	US	2015-11-18	2017-05-30	US14/944224
95	US10134919	US	2018-05-16	2018-11-20	US15/980749
96	US10020404	US	2017-04-27	2018-07-10	US15/498491
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105	US7199040	US	2004-05-10	2007-04-03	US10/841562
106	US7645698	US	2006-12-28	2010-01-12	US11/646387
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137	US8030778	US	2007-07-06	2011-10-04	US11/774388
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141	US7872852	US	2008-02-12	2011-01-18	US12/029472
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145	TWI484643	TW	2009-04-28	2015-05-11	TW098114056
146	US7817265	US	2008-09-25	2010-10-19	US12/237404
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149	US7888195	US	2008-08-26	2011-02-15	US12/198128
150	TWI370519	TW	2008-08-26	2012-08-11	TW097132536
151	US7782113	US	2008-11-24	2010-08-24	US12/276424
152	TWI468923	TW	2008-11-25	2015-01-11	TW097145439
153	CN101753128B	CN	2008-12-08	2012-11-14	CN200810178010.9
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158	US9064691	US	2010-08-13	2015-06-23	US12/855952
159	US9177789	US	2015-05-15	2015-11-03	US14/712925
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161	TWI512753	TW	2011-11-16	2015-12-11	TW100141929
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167	US9064719	US	2014-07-04	2015-06-23	US14/324090
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170	US9412734	US	2015-01-05	2016-08-09	US14/588991
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172	US9851780	US	2015-08-19	2017-12-26	US14/829644
173	TWI667570	TW	2015-07-15	2019-08-01	TW104122845
174	US9391177	US	2015-08-13	2016-07-12	US14/825174
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179	US10020049	US	2017-01-24	2018-07-10	US15/413436
180	TWI698871	TW	2017-01-03	2018-07-16	TW106100021
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182	US10529707	US	2018-05-18	2020-01-07	US15/983096
183	US10026745	US	2017-01-13	2018-07-17	US15/405324
184	US10332875	US	2017-05-09	2019-06-25	US15/591031
185	US11018132	US	2019-04-10	2019-08-01	US16/380953
186	TWI721148	TW	2017-04-06	2021-03-11	TW106111597
187	US10177156	US	2017-04-19	2019-01-08	US15/491939
188	US10347645	US	2018-12-02	2019-07-09	US16/207171
189	TWI708329	TW	2017-03-20	2018-10-01	TW106109135
190	US10095251	US	2017-05-26	2018-10-09	US15/607266
191	TWI667563	TW	2017-04-10	2019-08-01	TW106111858
192	US10439066	US	2017-09-29	2019-10-08	US15/721177
193	US10978589	US	2019-08-01	2019-11-21	US16/529523
194	CN109427773A	CN	2017-08-30	2019-03-05	CN201710761591.8
195	US10177763	US	2018-01-22	2019-01-08	US15/877368
196	TWI716657	TW	2017-12-20	2019-07-16	TW106144832
197	US6946343	US	2003-04-03	2005-09-20	US10/249374
198	TWI239634	TW	2003-05-02	2005-09-11	TW092112080
199	US7250339	US	2007-02-06	2007-07-31	US11/671971
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204	US7170144	US	2005-02-25	2007-01-30	US10/906583
205	US7786546	US	2006-12-08	2010-08-31	US11/608249
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212	TWI460838	TW	2008-12-08	2014-11-11	TW097147618
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214	US9461150	US	2015-12-28	2016-10-04	US14/979594
215	CN105280496B	CN	2014-06-05	2019-06-11	CN201410247402.1
216	US9269645	US	2014-10-23	2016-02-23	US14/521893
217	CN105428327B	CN	2014-08-28	2018-03-23	CN201410430514.0
218	US6894364	US	2003-02-24	2005-05-17	US10/248833
219	TWI313066	TW	2003-02-11	2009-08-01	TW092102732
220	US6887748	US	2004-02-10	2005-05-03	US10/708108
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224	TWI286354	TW	2006-03-22	2007-09-01	TW095109914
225	US8288802	US	2006-04-19	2012-10-16	US11/379226
226	US8415723	US	2012-06-07	2013-04-09	US13/490482
227	US7615399	US	2007-05-27	2009-11-10	US11/754307
228	US7755122	US	2005-08-29	2010-07-13	US11/162118
229	CN100524786C	CN	2005-08-18	2009-08-05	CN200510092414.2
230	US8129278	US	2005-11-14	2012-03-06	US11/164204
231	US8759218	US	2011-12-28	2014-06-24	US13/339350
232	US7560350	US	2006-04-17	2009-07-14	US11/308643
233	US7485517	US	2006-04-07	2009-02-03	US11/308560
234	US7928512	US	2007-07-12	2011-04-19	US11/776562
235	TWI297520	TW	2006-04-13	2008-06-01	TW095113138
236	CN101060099B	CN	2006-04-21	2010-05-12	CN200610074659.7
237	US7524716	US	2007-05-30	2009-04-28	US11/755669
238	US7288822	US	2006-04-07	2007-10-30	US11/399827
239	TWI295852	TW	2006-04-11	2008-04-11	TW095112821
240	CN100466255C	CN	2006-04-18	2009-03-04	CN200610075283.1
241	US7927954	US	2007-02-26	2011-04-19	US11/678627
242	TWI328842	TW	2007-02-26	2010-08-11	TW096106558
243	US8493661	US	2012-04-27	2013-07-23	US13/457680
244	US8228606	US	2008-01-08	2012-07-24	US11/970936
245	US8379312	US	2012-04-27	2013-02-19	US13/457776
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247	TWI358126	TW	2008-01-11	2012-02-11	TW097101188
248	US7998818	US	2010-08-25	2011-08-16	US12/862799
249	US7804141	US	2008-02-19	2010-09-28	US12/033017
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251	US8193050	US	2010-10-18	2012-06-05	US12/907016
252	US7838946	US	2008-03-28	2010-11-23	US12/058208
253	US8816439	US	2010-10-19	2014-08-26	US12/907036
254	TWI364799	TW	2008-04-03	2012-05-21	TW097112278
255	US8345895	US	2008-07-25	2013-01-01	US12/179871
256	US8553911	US	2012-11-01	2013-10-08	US13/665935
257	TWI444055	TW	2008-08-07	2014-07-01	TW097130104
258	US8525389	US	2010-11-10	2013-09-03	US12/943269
259	US7851975	US	2008-09-02	2010-12-14	US12/202563
260	US8096048	US	2010-08-03	2012-01-17	US12/849168
261	US9150407	US	2013-07-18	2015-10-06	US13/945892
262	TWI472472	TW	2008-09-08	2015-02-11	TW097134458
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264	TWI474463	TW	2009-10-13	2015-02-21	TW098134630
265	US8405155	US	2010-09-23	2013-03-26	US12/888430
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271	US8704294	US	2011-06-13	2014-04-22	US13/158479
272	US8999830	US	2013-12-19	2015-04-07	US14/135520
273	US8952451	US	2013-12-20	2015-02-10	US14/135588
274	CN102856255B	CN	2011-06-27	2016-05-25	CN201110174511.1
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277	US9312258	US	2013-07-08	2016-04-12	US13/936214
278	TWI512946	TW	2010-11-30	2015-12-11	TW099141629
279	CN102543990B	CN	2010-12-15	2015-09-09	CN201010588896.1
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281	US8841733	US	2011-05-17	2014-09-23	US13/109599
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286	US8872286	US	2011-08-22	2014-10-28	US13/214260
287	US9281374	US	2014-09-19	2016-03-08	US14/490679
288	TWI536543	TW	2011-08-22	2016-06-01	TW100130024
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291	US9269678	US	2012-10-25	2016-02-23	US13/659924
292	US9691703	US	2016-01-10	2017-06-27	US14/992006
293	US9013003	US	2012-12-27	2015-04-21	US13/728948
294	US9330980	US	2015-03-16	2016-05-03	US14/659576
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304	US9786510	US	2014-10-13	2017-10-10	US14/512475
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306	CN105470295B	CN	2014-09-09	2020-06-30	CN201410454915.X
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309	TWI540650	TW	2014-08-06	2016-07-01	TW103126975
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314	US9412743	US	2014-10-29	2016-08-09	US14/526552
315	US9721840	US	2016-06-28	2017-08-01	US15/194577
316	CN105448918B	CN	2014-09-30	2020-05-12	CN201410524514.7
317	US9318389	US	2014-10-22	2016-04-19	US14/520342
318	US9754841	US	2016-03-03	2017-09-05	US15/060572
319	CN105514105B	CN	2014-09-26	2019-08-06	CN201410500432.9
320	US9443958	US	2014-10-06	2016-09-13	US14/506700
321	US9825147	US	2016-08-09	2017-11-21	US15/231792
322	US9490141	US	2014-12-30	2016-11-08	US14/585210
323	CN105702573B	CN	2014-11-27	2019-03-26	CN201410697179.0
324	US9614061	US	2016-06-22	2017-04-04	US15/188998
325	US9385220	US	2015-01-05	2016-07-05	US14/588989
326	US9608090	US	2016-06-01	2017-03-28	US15/170904
327	TWI642110	TW	2014-12-03	2018-11-21	TW103142048
328	US9666715	US	2015-01-19	2017-05-30	US14/599556
329	TWI641135	TW	2014-12-12	2018-11-11	TW103143557
330	US9406772	US	2015-01-30	2016-08-02	US14/609446
331	US9530779	US	2015-03-02	2016-12-27	US14/634903
332	US9640662	US	2016-11-14	2017-05-02	US15/350113
333	TWI629790	TW	2015-01-26	2018-07-11	TW104102601
334	US9548268	US	2015-06-04	2017-01-17	US14/731394
335	TWI677063	TW	2015-04-28	2019-11-11	TW104113556
336	US9666471	US	2015-05-14	2017-05-30	US14/711777
337	US10134858	US	2017-04-21	2018-11-20	US15/493154
338	TWI652824	TW	2015-04-13	2019-03-01	TW104111803
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341	US9875928	US	2015-04-09	2018-01-23	US14/682124
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346	US9431239	US	2015-07-26	2016-08-30	US14/809278
347	CN106328507B	CN	2015-06-17	2017-01-11	CN201510336284.6
348	US9583394	US	2016-10-14	2017-02-28	US15/293292
349	US9502410	US	2015-07-06	2016-11-22	US14/792591
350	CN106252391B	CN	2015-06-09	2021-02-19	CN201510311627.3
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352	US9704737	US	2015-08-03	2017-07-11	US14/816081
353	TWI647764	TW	2015-07-01	2019-01-11	TW104121285
354	US9543211	US	2015-09-25	2017-01-10	US14/864881
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358	US9466727	US	2015-10-29	2016-10-11	US14/925984
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360	US9793382	US	2017-03-28	2017-10-17	US15/470905
361	CN106548940A	CN	2015-09-16	2017-03-29	CN201510589504.6
362	US9583641	US	2015-12-07	2017-02-28	US14/960453
363	CN106684085B	CN	2015-11-11	2017-05-17	CN201510764951.0
364	US9853123	US	2015-10-28	2017-12-26	US14/924723
365	US9443757	US	2015-11-12	2016-09-13	US14/940120
366	US9530871	US	2016-08-02	2016-12-27	US15/225836
367	TWI668866	TW	2015-10-07	2019-08-11	TW104132947
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376	US9680022	US	2016-07-12	2017-06-13	US15/207916
377	US9691733	US	2016-07-28	2017-06-27	US15/221609
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395	US10069009	US	2018-01-04	2018-09-04	US15/861700
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406	US10522551	US	2018-01-30	2019-12-31	US15/884063
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415	US6989557	US	2002-06-05	2006-01-24	US10/709569
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434	US7157346	US	2005-07-01	2007-01-02	US11/160630
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452	US8268662	US	2011-02-14	2012-09-18	US13/026302
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455	US8716092	US	2011-12-21	2014-05-06	US13/332370
456	US8106466	US	2008-08-10	2012-01-31	US12/189195
457	TWI480956	TW	2008-08-08	2015-04-11	TW097130339
458	US8207596	US	2010-09-15	2012-06-26	US12/883152
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460	CN101587862B	CN	2008-05-23	2012-11-21	CN200810109131.8
461	TWI384531	TW	2008-05-14	2013-02-01	TW097117717
462	US7898081	US	2008-07-03	2011-03-01	US12/168057
463	TWI352685	TW	2008-07-08	2011-11-21	TW097125694
464	US8035191	US	2008-12-02	2011-10-11	US12/326106
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466	TWI453898	TW	2008-12-02	2014-09-21	TW097146763
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469	TWI476838	TW	2009-11-30	2015-03-11	TW098140827
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471	US8816409	US	2010-07-15	2014-08-26	US12/837475
472	TWI552230	TW	2010-07-15	2016-10-01	TW099123277
473	US8765591	US	2013-09-11	2014-07-01	US14/023482
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477	US8828878	US	2011-08-26	2014-09-09	US13/218458
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487	CN103208520B	CN	2012-01-13	2017-06-23	CN201210064850.9
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489	US9000568	US	2011-09-26	2015-04-07	US13/244948
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494	US9312292	US	2011-10-26	2016-04-12	US13/282441
495	US8779526	US	2011-10-28	2014-07-15	US13/283603
496	US8940600	US	2014-06-03	2015-01-27	US14/294152
497	TWI521642	TW	2011-10-26	2016-02-11	TW100138827
498	US8748278	US	2013-10-31	2014-06-10	US14/069179
499	US8604548	US	2011-11-23	2013-12-10	US13/304086
500	US9184292	US	2014-07-24	2015-11-10	US14/340267
501	US8822284	US	2012-02-09	2014-09-02	US13/370231
502	US8709910	US	2012-04-30	2014-04-29	US13/459262
503	TWI523081	TW	2012-04-26	2016-02-21	TW101114896
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510	TWI528461	TW	2012-05-03	2016-04-01	TW101115783
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518	US9159844	US	2013-04-22	2015-10-13	US13/867125
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526	US9678530	US	2015-08-06	2017-06-13	US14/819444
527	CN104573146B	CN	2013-10-16	2018-01-23	CN201310485341.8
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530	CN104517928B	CN	2013-09-30	2018-08-24	CN201310460491.3
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534	US10177231	US	2017-10-30	2019-01-08	US15/797011
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546	US7256626	US	2005-11-22	2007-08-14	US11/164405
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551	US7531903	US	2005-09-02	2009-05-12	US11/218456
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571	US8779513	US	2013-04-24	2014-07-15	US13/869037
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