

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7746185

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IDAC HOLDINGS, INC. BY ITS SUCCESSOR INTERDIGITAL PATENT HOLDINGS, INC.	12/16/2022

RECEIVING PARTY DATA

Name:	INTERDIGITAL PATENT HOLDINGS, INC.
Street Address:	200 BELLEVUE PARKWAY
Internal Address:	SUITE 300
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19809

PROPERTY NUMBERS Total: 99

Property Type	Number
Application Number:	63324889
Application Number:	63303800
Application Number:	63306745
Application Number:	63303832
Application Number:	63292154
Application Number:	63354094
Application Number:	63353939
Application Number:	63326401
Application Number:	63391497
Application Number:	63330600
Application Number:	63390100
Application Number:	63324887
Application Number:	63307476
Application Number:	63308254
Application Number:	63308332
Application Number:	17775095
Application Number:	17764607
Application Number:	17765498
Application Number:	17637584

PATENT

Property Type	Number
Application Number:	17764807
Application Number:	17634627
Application Number:	17635209
Application Number:	17634724
Application Number:	17634311
Application Number:	17634710
Application Number:	17642286
Application Number:	17762222
Application Number:	17605853
Application Number:	17601516
Application Number:	17441765
Application Number:	17432773
Application Number:	17429846
Application Number:	17430885
Application Number:	17429002
Application Number:	17421993
Application Number:	17421891
Application Number:	17421649
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Application Number:	17310249
Application Number:	17419322
Application Number:	17416137
Application Number:	17414210
Application Number:	17414159
Application Number:	17289363
Application Number:	17283192
Application Number:	17279272
Application Number:	17269724
Application Number:	17268004
Application Number:	17266444
Application Number:	17266785
Application Number:	17507181
Application Number:	16534550
Application Number:	17265863
Application Number:	17316298
Application Number:	17264991
Application Number:	17265732
Application Number:	17265563

Property Type	Number
Application Number:	17265865
Application Number:	17053088
Application Number:	17044384
Application Number:	17044987
Application Number:	17044586
Application Number:	17045027
Application Number:	17861770
Application Number:	17751290
Application Number:	16963002
Application Number:	16962942
Application Number:	16960937
Application Number:	16960911
Application Number:	16964795
Application Number:	16961070
Application Number:	16495662
Application Number:	16495300
Application Number:	16495239
Application Number:	16482871
Application Number:	17346983
Application Number:	17108642
Application Number:	17536508
Application Number:	16337582
Application Number:	17401909
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Application Number:	17581492
Application Number:	16088380
Application Number:	17699929
Application Number:	16085766
Application Number:	17751356
Application Number:	16066861
Application Number:	17546467
Application Number:	17028116
Application Number:	17746680
Application Number:	17857486
Application Number:	16538219
Application Number:	17798916

Property Type	Number
Application Number:	17799294
Application Number:	17798914
Application Number:	17798925
Application Number:	17796187

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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.

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Email: awolf@vklaw.com

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Address Line 2: 30 SOUTH 17TH STREET SUITE 1800

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER: IPH 1A

NAME OF SUBMITTER: ROBERT D. LEONARD

SIGNATURE: /Robert D. Leonard/

DATE SIGNED: 01/17/2023

Total Attachments: 112

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CONFIRMATORY PATENT ASSIGNMENT

This CONFIRMATORY PATENT ASSIGNMENT, effective as of November 3, 2022 is made by and between **IDAC Holdings, Inc.** by its successor **InterDigital Patent Holdings, Inc.**, a Delaware corporation having a place of business at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 (hereinafter “Assignor”), and **InterDigital Patent Holdings, Inc.**, a Delaware corporation having a place of business at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 (hereinafter “Assignee”).

WHEREAS:

Assignor previously executed a Patent Assignment, dated November 3, 2022 (“Patent Assignment”) with respect to certain United States and/or foreign patents and/or patent applications listed in Exhibit A attached hereto (hereinafter “Patents”);

Assignee previously acquired the entire right, title and interest in, to and under the Patents as a result of said Patent Assignment; and

Assignor and Assignee are desirous of memorializing and confirming the prior transfer of the Patents.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound hereby, Assignor hereby confirms that as of November 3, 2022 Assignor intended to and previously has sold, assigned, transferred, and conveyed to Assignee the entire right, title, and interest in and to any and all of the following:

- (i) the Patents, including any and all inventions, invention disclosures, improvements and discoveries disclosed or claimed therein (hereinafter “Inventions”), for the United States, its possessions and territories and all foreign countries, regions and territories;
- (ii) the rights of priority created by the Patents under any treaty relating thereto, including the rights to apply for patents and patent applications covering the Inventions in any and all countries, regions and territories;
- (iii) any and all patents and patent applications, certificates of invention, utility models and any other grants by any governmental entity for the protection of inventions resulting from the Patents, in any and all countries, regions and territories, including any and all patents and patent applications disclosing the Inventions and any patents issuing from such applications, including provisionals, non-provisionals, divisionals, continuations, continuations-in-part, reissues, extensions, renewals, substitutions and re-examinations of the Patents; and
- (iv) all past, present and future causes of action and enforcement rights, whether currently pending, filed or otherwise, in connection with the Patents, the patents and patent applications resulting from the Patents and the Inventions, including without limitation, all rights to sue for any past, present or future infringement thereof, including the rights to license and to collect and receive any damages, royalties, injunctive relief, and/or any other settlements or remedies for such infringements, and including any provisional rights having arisen from any publication of any of the Patents or any patent application resulting therefrom,

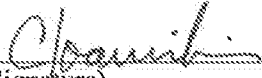
the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor, if this Confirmatory Assignment had not been made.

IDAC Holdings, Inc. to InterDigital Patent Holdings, Inc.

AND, this Confirmatory Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Confirmatory Assignment.

IN WITNESS WHEREOF, Assignor and Assignee, by and through their respective authorized representative, have executed this instrument on the date indicated below.

SIGNED for and on behalf of **IDAC Holdings, Inc.** by its successor **InterDigital Patent Holdings, Inc.**

By  16 DECEMBER 2022
(Signature) (Date)
Christos A. Ioannidi
Senior Patent Executive

SIGNED for and on behalf of **InterDigital Patent Holdings, Inc.**

By  16 DECEMBER 2022
(Signature) (Date)
Christos A. Ioannidi
Senior Patent Executive

EXHIBIT A

Country Code	Application Number	Patent or Publication No.	Filing Date
AU	2012242620		2012-Apr-13
CN	201280017729.9	CN103563450A	2012-Apr-13
EP	12717540.4	2698009	2012-Apr-13
ID	W00201304690	2014/03729	2012-Apr-13
JP	2014-505347	2014-512145	2012-Apr-13
KR	10-2013-7029999	10-2014-0024381	2012-Apr-13
TW	101113182	I586186	2012-Apr-13
US	61/475,063		2011-Apr-13
US	13/446,671	9,060,328	2012-Apr-13
US	14/708,479	US-2015-0245262-A1	2012-Apr-13
US	15/470,404	US2017/0201972A1	2012-Apr-13
WO	PCT/US2012/033559	WO2012/142436	2012-Apr-13
US	61/480,768		2011-Apr-29
US	61/645,352		2012-May-10
DE	13725018.9	2848083	2013-May-10
EP	13725018.9	2848083	2013-May-10
FR	13725018.9	2848083	2013-May-10
GB	13725018.9	2848083	2013-May-10
NL	13725018.9	2848083	2013-May-10
TW	102116708	201408013	2013-May-10
US	61/645,156		2012-May-10
US	16/502,758	US-2019-0327622-A1	2013-May-10
US	14/400,152	10,397,803	2013-May-10
WO	PCT/US13/40576	WO2013/170169	2013-May-10
CN	201380045764.6	CN105052199A	2013-Aug-28
EP	13759954.4	2891362	2013-Aug-28
JP	2015-529998	2015-527026	2013-Aug-28
TW	102130824	I611708	2013-Aug-28
US	61/694,162		2012-Aug-28
US	15/488,146	9,961,565	2013-Aug-28
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US	14/423,362	9,629,171	2013-Aug-28
WO	PCT/US13/57101	WO2014/036150	2013-Aug-28
EP	13760177.9	2891265	2013-Aug-27
TW	102130827	201424319	2013-Aug-28
US	61/694,094		2012-Aug-28
US	14/424,740	10,567,147	2013-Aug-27
WO	PCT/US2013/56892	WO2014/036025	2013-Aug-27
CN	201380062557.1	ZL201380062557.1	2013-Nov-27
EP	13815200.4	2926494	2013-Nov-27

Country Code	Application Number	Patent or Publication No.	Filing Date
JP	2017-134140	2017-204873	2013-Nov-27
JP	2015-545469	2016-506125	2013-Nov-27
KR	10-2015-7017439	10-2015-0091370	2013-Nov-27
US	61/731,356		2012-Nov-29
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US	14/648,160	9,692,629	2013-Nov-27
WO	PCT/US13/72410	WO2014/085710	2013-Nov-27
CN	201480007589.6	CN104995885A	2014-Feb-04
EP	14705264.1	2954650	2014-Feb-04
JP	2015-557005	6122154	2014-Feb-04
KR	10-2015-7023708	10-2015-0114987	2014-Feb-04
TW	103103737	1624155	2014-Feb-05
TW	106134858		2014-Feb-05
US	61/760,938		2013-Feb-05
US	16/731,432	US-2020-0213168-A1	2014-Feb-04
US	14/766,040	10,523,475	2014-Feb-04
WO	PCT/US14/014717	WO2014/123926	2014-Feb-04
CN	201480007726.6	CN104982049A	2014-Feb-05
EP	14705672.5	2954710	2014-Feb-05
JP	2015-557037	6219975	2014-Feb-05
KR	10-2015-7024226	10-2015-0117288	2014-Feb-05
TW	103103904	201445926	2014-Feb-06
US	61/761,962		2013-Feb-07
US	14/766,051	9,474,009	2014-Feb-05
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CN	201480007729.X	CN104982055A	2014-Feb-05
EP	14707520.4	2954714	2014-Feb-05
JP	2015-557030	6085041	2014-Feb-05
KR	10-2015-7024268	10-2015-0115015	2014-Feb-05
TW	103103905	201448618	2014-Feb-06
US	61/761,978		2013-Feb-07
US	16/538,219	US-2019-0364453-A1	2014-Feb-05
US	14/766,044	10,382,992	2014-Feb-05
WO	PCT/US14/14898	WO2014/124024	2014-Feb-05
CN	201480007965.1	CN105009474A	2014-Feb-06
EP	14707524.6	2954624	2014-Feb-06
JP	2016-203749	2017-055416	2014-Feb-06
JP	2015-557072	6040467	2014-Feb-06
KR	10-2015-7024267	10-2015-0115933	2014-Feb-06
TW	103103903	201446019	2014-Feb-06
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US	14/766,696	9,781,738	2014-Feb-06
WO	PCT/US14/15141	WO2014/124164	2014-Feb-06

Country Code	Application Number	Patent or Publication No.	Filing Date
CN	201480007954.3	CN104982070A	2014-Feb-06
EP	14706202.0	2954727	2014-Feb-06
TW	103104051	1625980	2014-Feb-07
US	61/761,980		2013-Feb-07
US	14/766,370	10,187,840	2014-Feb-06
WO	PCT/US14/15129	WO2014/124153	2014-Feb-06
US	61/767,556		2013-Feb-21
US	61/774,979		2013-Mar-08
US	61/774,452		2013-Mar-07
CN	201480021564.1	ZL201480021564.1	2014-Apr-15
EP	14727114.2	2987385	2014-Apr-15
JP	2016-509024	6272988	2014-Apr-15
KR	10-2015-7032660	1748066	2014-Apr-15
TW	103113632	201507524	2014-Apr-15
US	61/812,202		2013-Apr-15
US	15/716,466	10462774	2014-Apr-15
US	14/784,481	9,801,232	2014-Apr-15
WO	PCT/US14/34074	WO2014/172306	2014-Apr-15
US	61/817,838		2013-Apr-30
US	61/824,326		2013-May-16
CN	201480047571.9	CN105493460A	2014-Aug-15
EP	14759377.6	3039836	2014-Aug-15
JP	2016-538961	2016-531522	2014-Aug-15
US	61/871,559		2013-Aug-29
US	14/912,337	US2016/0191218A1	2014-Aug-15
WO	PCT/US14/51228	WO2015/031075	2014-Aug-15
US	61/871,461		2013-Aug-29
US	61/874,784		2013-Sep-06
US	61/874,739		2013-Sep-06
US	61/874,512		2013-Sep-06
US	61/918,448		2013-Dec-19
US	14/575,302	9,935,376	2014-Dec-18
EP	19155925.1	3506678	2014-Oct-30
EP	20191756.4	3761707	2014-Oct-30
EP	14799934.6	3063988	2014-Oct-30
JP	2018-141283	6646113	2014-Oct-30
JP	2020-002313	6864126	2014-Oct-30
JP	2021-063045	7140871	2014-Oct-30
JP	2016-552247	2017-500828	2014-Oct-30
US	61/897,771		2013-Oct-30
US	15/892,964	10,104,591	2014-Oct-30
US	16/145,341	10645625	2014-Oct-30
US	16/859,047	10924974	2014-Oct-30
US	17/155938	11405840	2014-Oct-30

Country Code	Application Number	Patent or Publication No.	Filing Date
US	17/847,906	2022-0330123-A1	2014-Oct-30
US	15/033,313	9,930,597	2014-Oct-30
WO	PCT/US14/63259	WO-2015-069551-A1	2014-Oct-30
CN	201480075743.3	ZL201480075743.3	2014-Dec-11
EP	21171535.4	3879743	2014-Dec-11
EP	14827910.2	3085002	2014-Dec-11
JP	2016-541521	6721506	2014-Dec-11
KR	10-2016-7019468	2019540	2014-Dec-11
US	61/917,924		2013-Dec-18
US	16/259,428	2019/0158263	2014-Dec-11
US	17/113703	2021/0091918	2014-Dec-11
US	15/103,441	10,243,720	2014-Dec-11
WO	PCT/US14/69786	WO2015/094914	2014-Dec-11
EP	14827300.6	3078236	2014-Dec-05
JP	2018-038791	2018-129823	2014-Dec-05
JP	2016-536927	2016-540441	2014-Dec-05
US	61/913,073		2013-Dec-06
US	16/145,545	US2019/0037459	2014-Dec-05
US	15/102,247	10,129,802	2014-Dec-05
WO	PCT/US14/68953	WO2015/085273	2014-Dec-05
US	61/925,870		2014-Jan-10
EP	15703653.4	3095267	2015-Jan-13
US	61/926,766		2014-Jan-13
US	15/110,659	9,930,558	2015-Jan-13
WO	PCT/US15/11113	WO2015/106237	2015-Jan-13
EP	15703664.1	3095288	2015-Jan-16
US	61/928,860		2014-Jan-17
US	16/681,777	11,184,816	2015-Jan-16
US	15/111,867	10,512,008	2015-Jan-16
WO	PCT/US15/11707	WO2015/109153	2015-Jan-16
CN	202010485823.3	CN 111818651 A	2015-Apr-09
CN	201580030613.2	ZL201580030613.2	2015-Apr-09
EP	15719058.8	3130189	2015-Apr-09
US	61/977,613		2014-Apr-09
US	16/184,403	10,448,404	2015-Apr-09
US	16/560,932	US-2019-0394764-A1	2015-Apr-09
US	17/019,127	US-2021-0014847-A1	2015-Apr-09
US	15/302,721	10,172,135	2015-Apr-09
WO	PCT/US15/25195	WO2015/157565A1	2015-Apr-09
EP	15760595.7	EP3186945	2015-Aug-28
US	62/043,700		2014-Aug-29
US	15/506,432	US2018/0227390	2015-Aug-28
WO	PCT/US15/047473	WO2016/033487	2015-Aug-28
US	62/059,667		2014-Oct-03

Country Code	Application Number	Patent or Publication No.	Filing Date
US	14/875,459	10,305,651	2015-Oct-05
US	62/082,465		2014-Nov-20
US	62/049,661		2014-Sep-12
CN	202210943251.8		2015-Nov-25
CN	201580074377.4	ZL201580074377.4	2015-Nov-25
EP	21170751.8	38798881	2015-Nov-25
EP	15807769.3	3225070	2015-Nov-25
US	62/084,938		2014-Nov-26
US	16/582,305	11,382,136	2015-Nov-25
US	17/857,486	US-2022-0338270-A1	2015-Nov-25
US	15/528,029	2019/0104549	2015-Nov-25
WO	PCT/US15/62700	WO2016/086144	2015-Nov-25
CN	201580067982.9	ZL201580067982.9	2015-Oct-14
DE	15787370.4	60 2015 055 487.6	2015-Oct-14
EP	20182535.3	3780554	2015-Oct-14
EP	15787370.4	3207687	2015-Oct-14
FR	15787370.4	3207687	2015-Oct-14
GB	15787370.4	3207687	2015-Oct-14
JP	2017-520500	6492172	2015-Oct-14
KR	10-2017-7012972	2349060	2015-Oct-14
NL	15787370.4	3207687	2015-Oct-14
US	62/063,746		2014-Oct-14
US	16/154,224	10554553	2015-Oct-14
US	16/779,820	11,190,446	2015-Oct-14
US	15/518,688	10,122,632	2015-Oct-14
WO	PCT/US15/55553	WO2016/061243	2015-Oct-14
CN	202010740152.0	CN 112087794 A	2015-Dec-23
CN	201580076720.9	ZL201580076720.9	2015-Dec-23
EP	15831091.2	3238491	2015-Dec-23
US	62/096,221		2014-Dec-23
US	16/130,223	US2019/0014548	2015-Dec-23
US	15/539,173	10,111,190	2015-Dec-23
WO	PCT/US2015/00474	WO2016/105570	2015-Dec-23
CN	201680014479.1	ZL201680014479.1	2016-Jan-29
DE	16704763.8	3251326	2016-Jan-29
EP	16704763.8	3251326	2016-Jan-29
FR	16704763.8	3251326	2016-Jan-29
GB	16704763.8	3251326	2016-Jan-29
NL	16704763.8	3251326	2016-Jan-29
US	62/110,210		2015-Jan-30
US	15/546,719	10,979,482	2016-Jan-29
WO	PCT/US16/15713	WO2016/123516	2016-Jan-29
US	62/159,012		2015-May-08
US	15/572,691	US2018/0139081	2016-May-06

Country Code	Application Number	Patent or Publication No.	Filing Date
WO	PCT/US16/31246	WO2016/182922	2016-May-06
US	62/175,199		2015-Jun-12
WO	PCT/US16/37121	WO2016/201395	2016-Jun-12
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US	62/167,207		2015-May-27
US	62/174,992		2015-Jun-12
WO	PCT/US16/37184	WO2016/201411	2016-Jun-13
EP	16742467.0	3314952	2016-Jun-24
JP	2017-566123	6962823	2016-Jun-24
US	62/184,580		2015-Jun-25
US	17/746,680	US-2022-0278885-A1	2016-Jun-24
US	15/735,327	11,336,500	2016-Jun-24
WO	PCT/US16/39321	WO2016/210302	2016-Jun-24
US	62/188,001		2015-Jul-02
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TW	105121740	I 693812	2016-Jul-11
US	62/190,512		2015-Jul-09
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US	15/742,329	10,129,065	2016-Jul-07
WO	PCT/US16/41284	WO2017/007900	2016-Jul-07
DE	16744606.1	60 2016 066 328.7	2016-Jul-08
EP	16744606.1	3320654	2016-Jul-08
FR	16744606.1	3320654	2016-Jul-08
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EP	21709858.1	4104335	2021-Feb-11
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CN	202180023799.4		2021-Mar-06
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KR	10-2022-7034730	10-2022-0150383	2021-Mar-06
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VN	1-2022-06047		2021-Mar-06
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CN	202180026891.6		2021-Mar-05
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TW	110108083	202147799	2021-Mar-08
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EP	21720652.3		2021-Apr-01
IN	202217057322		2021-Apr-01
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US	17/915,227		2021-Apr-01
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CN	202180031037.9		2021-Apr-02
EP	21721698.5		2021-Apr-02
ID	P00202212185		2021-Apr-02
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CN	202180032756.2		2021-Apr-06
EP	21721754.6		2021-Apr-06
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SG	11202253906E		2021-Apr-08
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CN	PCT/US2021/026352		2021-Apr-08
EP	21722678.6		2021-Apr-08
ID	P00202212550		2021-Apr-08
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CN	PCT/US2021/026398		2021-Apr-08
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BR	BR 11 2022 020362 4		2021-Apr-07
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KR	10-2022-7038698		2021-Apr-07
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TW	110112509	202205901	2021-Apr-07
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BR	BR 11 2022 020876 6		2021-Apr-12
CN	PCT/US2021/026826		2021-Apr-12
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KR	10-2022-7039233		2021-Apr-12
TW	110113355	202142037	2021-Apr-14
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CN	PCT/US2021/033165		2021-May-19
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