

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7918898

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
IDAC HOLDINGS, INC.	12/16/2022
RECEIVING PARTY DATA	
Name:	INTERDIGITAL PATENT HOLDINGS, INC.
Street Address:	200 BELLEVUE PARKWAY, SUITE 300
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19809
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16322862
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	docketing@interdigital.com
Correspondent Name:	PATENT DOCKETING
Address Line 1:	200 BELLEVUE PARKWAY
Address Line 2:	SUITE 300
Address Line 4:	WILMINGTON, DELAWARE 19809
ATTORNEY DOCKET NUMBER:	2016P00512WOUS
NAME OF SUBMITTER:	GWEN L. BREDOW
SIGNATURE:	/Gwen L. Bredow/
DATE SIGNED:	04/25/2023
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,

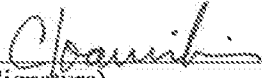
the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor, if this Confirmatory Assignment had not been made.

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
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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
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CN	201380045764.6	CN105052199A	2013-Aug-28
EP	13759954.4	2891362	2013-Aug-28
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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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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
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CN	201380062557.1	ZL201380062557.1	2013-Nov-27
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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
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US	14/648,160	9,692,629	2013-Nov-27
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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
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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
WO	PCT/US14/14942	WO2014/124048	2014-Feb-05
CN	201480007729.X	CN104982055A	2014-Feb-05
EP	14707520.4	2954714	2014-Feb-05
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TW	103103905	201448618	2014-Feb-06
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WO	PCT/US14/14898	WO2014/124024	2014-Feb-05
CN	201480007965.1	CN105009474A	2014-Feb-06
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TW	103103903	201446019	2014-Feb-06
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US	14/766,696	9,781,738	2014-Feb-06
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CN	201480007954.3	CN104982070A	2014-Feb-06
EP	14706202.0	2954727	2014-Feb-06
TW	103104051	I625980	2014-Feb-07
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TW	103113632	201507524	2014-Apr-15
US	61/812,202		2013-Apr-15
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US	61/817,838		2013-Apr-30
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CN	201480047571.9	CN105493460A	2014-Aug-15
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WO	PCT/US14/51228	WO2015/031075	2014-Aug-15
US	61/871,461		2013-Aug-29
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US	61/897,771		2013-Oct-30
US	15/892,964	10,104,591	2014-Oct-30
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US	16/859,047	10924974	2014-Oct-30
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US	17/847,906	2022-0330123-A1	2014-Oct-30
US	15/033,313	9,930,597	2014-Oct-30
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KR	10-2016-7019468	2019540	2014-Dec-11
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EP	15703653.4	3095267	2015-Jan-13
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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
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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
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EP	15760595.7	EP3186945	2015-Aug-28
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US	62/049,661		2014-Sep-12
CN	202210943251.8		2015-Nov-25
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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
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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
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US	16/154,224	10554553	2015-Oct-14
US	16/779,820	11,190,446	2015-Oct-14
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WO	PCT/US15/55553	WO2016/061243	2015-Oct-14
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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
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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

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WO	PCT/US16/31246	WO2016/182922	2016-May-06
US	62/175,199		2015-Jun-12
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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
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US	62/188,001		2015-Jul-02
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US	62/190,861		2015-Jul-10
TW	105121740	I 693812	2016-Jul-11
US	62/190,512		2015-Jul-09
US	16/173,507	10,298,431	2016-Jul-07
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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NL	16744606.1	3320654	2016-Jul-08
US	62/190,972		2015-Jul-10
US	15/743,303	11,184,240	2016-Jul-08
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US	62/191,060		2015-Jul-10
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WO	PCT/US16/47570	WO2017/031326	2016-Aug-18
CN	201680049236.1	CN107925968A	2016-Aug-26
EP	16760322.4	3342217	2016-Aug-26
TW	105127026	I712325	2016-Aug-24
US	62/210,242		2015-Aug-26
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EP	16760624.3	3342228	2016-Aug-25
HK	18109018.9	1249692A	2016-Aug-25

Country Code	Application Number	Patent or Publication No.	Filing Date
JP	2020-170708	7158448	2016-Aug-25
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RU	2018110170	2694586	2016-Aug-25
TW	105127206	1753859	2016-Aug-25
TW	110148532	202224374	2016-Aug-25
US	62/209,665		2015-Aug-25
US	16/837,358	11,528,701	2016-Aug-25
US	17/341,919	US-2021-0298060-A1	2016-Aug-25
US	17/684,567	US-2022-0191865-A1	2016-Aug-25
US	15/753,894	10,616,886	2016-Aug-25
WO	PCT/US16/48548	WO2017/035300	2016-Aug-25
EP	16767064.5	3342082	2016-Aug-25
JP	2021-143213	2021-192543	2016-Aug-25
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TW	105126904	1763633	2016-Aug-23
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EP	16779248.0	3356934	2016-Sep-23
US	62/236,327		2015-Oct-02
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WO	PCT/US16/53340	WO2017/058653	2016-Sep-23
US	62/218,376		2015-Sep-14
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DE	16802183.0	3371926	2016-Nov-02
EP	16802183.0	3371926	2016-Nov-02
FR	16802183.0	3371926	2016-Nov-02
GB	16802183.0	3371926	2016-Nov-02
JP	2018-522109	7066611	2016-Nov-02
NL	16802183.0	3371926	2016-Nov-02
TW	105135656	1702872	2016-Nov-03
US	62/250,584		2015-Nov-04
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SG	11202253906E		2021-Apr-08
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