

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7971107

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the APPLICATION NUMBER 16495300. IT SHOULD HAVE BEEN APPLICATION 16496300 previously recorded on Reel 062401 Frame 0738. Assignor(s) hereby confirms the THE APPLICATION NUMBER IS 16496300 SEE PAGE (A-35) OF ASSIGNMENT.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>IDAC HOLDINGS, INC. BY ITS SUCCESSOR INTERDIGITAL PATENT HOLDINGS, INC.</td><td>12/16/2022</td></tr></tbody></table>	Name	Execution Date	IDAC HOLDINGS, INC. BY ITS SUCCESSOR INTERDIGITAL PATENT HOLDINGS, INC.	12/16/2022							
Name	Execution Date										
IDAC HOLDINGS, INC. BY ITS SUCCESSOR INTERDIGITAL PATENT HOLDINGS, INC.	12/16/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>INTERDIGITAL PATENT HOLDINGS, INC.</td></tr><tr><td>Street Address:</td><td>200 BELLEVUE PARKWAY</td></tr><tr><td>City:</td><td>WILMINGTON</td></tr><tr><td>State/Country:</td><td>DELAWARE</td></tr><tr><td>Postal Code:</td><td>19809</td></tr></table>	Name:	INTERDIGITAL PATENT HOLDINGS, INC.	Street Address:	200 BELLEVUE PARKWAY	City:	WILMINGTON	State/Country:	DELAWARE	Postal Code:	19809	
Name:	INTERDIGITAL PATENT HOLDINGS, INC.										
Street Address:	200 BELLEVUE PARKWAY										
City:	WILMINGTON										
State/Country:	DELAWARE										
Postal Code:	19809										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>16496300</td></tr></tbody></table>	Property Type	Number	Application Number:	16496300							
Property Type	Number										
Application Number:	16496300										
CORRESPONDENCE DATA											
Fax Number: (215)568-6499											
<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>											
Phone: 2155686400											
Email: awolf@vklaw.com											
Correspondent Name: ROBERT D. LEONARD											
Address Line 1: VOLPE KOENIG											
Address Line 2: 30 SOUTH 17TH STREET SUITE 1800											
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103											
ATTORNEY DOCKET NUMBER:	IDC-2017P00509WOUS										
NAME OF SUBMITTER:	ROBERT D. LEONARD										
SIGNATURE:	/ROBERT D. LEONARD/										
DATE SIGNED:	05/24/2023										
Total Attachments: 127											
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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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
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Application Number:	16538219
Application Number:	17798916
Application Number:	17799294
Application Number:	17798914
Application Number:	17798925
Application Number:	17796187

CORRESPONDENCE DATA

Fax Number: (215)568-6499
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Email: awolf@vklaw.com

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Address Line 1: VOLPE KOENIG
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:	01/17/2023

Total Attachments: 112

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PATENT

REEL: 063753 FRAME: 0840

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RECEIPT INFORMATION

EPAS ID: PAT7746185
Receipt Date: 01/17/2023

PATENT
REEL: 063753 FRAME: 0841

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.**

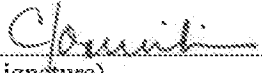
By  16 DECEMBER 2022
(Signature) (Date)
Christos A. Ioannidi
Senior Patent Executive

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
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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
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US	14/424,740	10,567,147	2013-Aug-27
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EP	13815200.4	2926494	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
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US	16/731,432	US-2020-0213168-A1	2014-Feb-04
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CN	201480007729.X	CN104982055A	2014-Feb-05
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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
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TW	103103903	201446019	2014-Feb-06
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WO	PCT/US14/15141	WO2014/124164	2014-Feb-06

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CN	201480007954.3	CN104982070A	2014-Feb-06
EP	14706202.0	2954727	2014-Feb-06
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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
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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
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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
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JP	2018-141283	6646113	2014-Oct-30
JP	2020-002313	6864126	2014-Oct-30
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JP	2016-552247	2017-500828	2014-Oct-30
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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
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KR	10-2016-7019468	2019540	2014-Dec-11
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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
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EP	14827300.6	3078236	2014-Dec-05
JP	2018-038791	2018-129823	2014-Dec-05
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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
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US	16/681,777	11,184,816	2015-Jan-16
US	15/111,867	10,512,008	2015-Jan-16
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CN	202010485823.3	CN 111818651 A	2015-Apr-09
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US	61/977,613		2014-Apr-09
US	16/184,403	10,448,404	2015-Apr-09
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US	62/043,700		2014-Aug-29
US	15/506,432	US2018/0227390	2015-Aug-28
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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
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EP	21710157.5	4104466	2021-Feb-12
ID	P00202209625		2021-Feb-12
IN	202217045607		2021-Feb-12
KR	10-2022-7031152	10-2022-0140776	2021-Feb-12
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VN	PCT/US2021/017766		2021-Feb-12
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EP	21710727.5	4104621	2021-Feb-12
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US	17/799,107		2021-Feb-12
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CN	202180019015.0	CN 115245019 A	2021-Feb-12
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ID	P00202209438		2021-Feb-15
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EP	21709858.1	4104335	2021-Feb-11
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BR	BR 11 2022 017798 4		2021-Mar-06
CN	202180023799.4		2021-Mar-06
EP	21714596.0		2021-Mar-06
ID	P00202210707		2021-Mar-06
IN	202217049304		2021-Mar-06
KR	10-2022-7034730	10-2022-0150383	2021-Mar-06
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KR	10-2022-7034460	10-2022-0152259	2021-Mar-05
TW	110108083	202147799	2021-Mar-08
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EP	21720652.3		2021-Apr-01
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CN	202180031037.9		2021-Apr-02
EP	21721698.5		2021-Apr-02
ID	P00202212185		2021-Apr-02
IN	202217056855		2021-Apr-02
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CN	202180032756.2		2021-Apr-06
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ID	P00202212552		2021-Apr-06
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SG	11202253906E		2021-Apr-08
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CN	PCT/US2021/026352		2021-Apr-08
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ID	P00202212550		2021-Apr-08
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IN	202217057455		2021-Apr-08
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ID	P00202212553		2021-Mar-30
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CN	202180031953.2		2021-Apr-07
EP	21721356.0		2021-Apr-07
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CN	PCT/US2021/026398		2021-Apr-08
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ID	P00202212534		2021-Apr-08
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IN	202217058412		2021-Apr-08
KR	10-2022-7038413		2021-Apr-08
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ZA	2022/11319		2021-Apr-08
BR	BR 11 2022 020362 4		2021-Apr-07
CA	3174947		2021-Apr-07
CN	202180032581.5		2021-Apr-07
EP	21723813.8		2021-Apr-07
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KR	10-2022-7038698		2021-Apr-07
SG	11202253905H		2021-Apr-07
TW	110112509	202205901	2021-Apr-07
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ID	P00202212533		2021-Apr-08
IN	202217057866		2021-Apr-08
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IN	202217059866		2021-Apr-14
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BR	BR 11 2022 020876 6		2021-Apr-12
CN	PCT/US2021/026826		2021-Apr-12
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IN	202217059342		2021-Apr-12
KR	10-2022-7039233		2021-Apr-12
TW	110113355	202142037	2021-Apr-14
US	63/009500		2020-Apr-14
US	17/918,381		2021-Apr-12
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WO	PCT/US2021/026826	WO 2021/211425	2021-Apr-12
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EP	21723090.3		2021-Apr-16
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EP	21729367.9		2021-May-05
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CN	PCT/US2021/033165		2021-May-19
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ID	PCT/US2021/033165		2021-May-19
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