

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7743730

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PCMS HOLDINGS, INC.	12/16/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERDIGITAL VC HOLDINGS, INC.
<b>Street Address:</b>	200 BELLEVUE PARKWAY
<b>Internal Address:</b>	SUITE 300
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19809
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16694808
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	docket@inventionmine.com
<b>Correspondent Name:</b>	INVENTION MINE LLC
<b>Address Line 1:</b>	115 E. OGDEN AVE
<b>Address Line 2:</b>	SUITE 105-348
<b>Address Line 4:</b>	NAPERVILLE, ILLINOIS 60563
<b>ATTORNEY DOCKET NUMBER:</b>	2015P00355 US01
<b>NAME OF SUBMITTER:</b>	ROBERT J. IRVINE III
<b>SIGNATURE:</b>	/Robert J. Irvine III/
<b>DATE SIGNED:</b>	01/16/2023
<b>Total Attachments: 12</b>	
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## CONFIRMATORY PATENT ASSIGNMENT

This CONFIRMATORY PATENT ASSIGNMENT, effective as of October 31, 2022 is made by and between **PCMS Holdings, Inc.** by its successor **DRNC Holdings, Inc.**, a Delaware corporation having a place of business at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 (hereinafter "Assignor"), and **InteDigital VC 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 October 31, 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 October 31, 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,

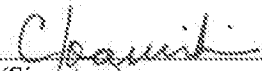
the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor, if this Confirmatory Assignment had not been made.

*PCMS Holdings, Inc. to InterDigital VC Holdings, Inc.*

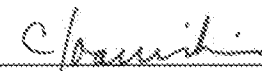
AND, this Confirmatory Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Confirmatory Assignment.

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 **PCMS Holdings, Inc.** by its successor **DRNC Holdings, Inc.**

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

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

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

**EXHIBIT A**

<b>Country Code</b>	<b>Application Number</b>	<b>Patent or Publication No.</b>	<b>Filing Date</b>
CN	201180001452	ZL201180001452.6	2011-May-11
EP	11777183	EP 2560107 A2	2011-May-11
US	13/705324	US 8743146 B2	2011-May-11
WO	PCT/CN2011/073924	WO 2011137764 A2	2011-May-11
EP	EP15704423.1	EP3097474	2015-Jan-24
JP	2018-207898	6823035	2015-Jan-24
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KR	10-2016-7023231	1826290	2015-Jan-24
US	61/931,225		2014-Jan-24
US	15/113,716	US-2017-0011538-A1	2015-Jan-24
WO	PCT/US15/12797	WO2015/112926	2015-Jan-24
CN	201580039587.X	CN106659936A	2015-Jul-09
EP	18196817.3	3441966	2015-Jul-09
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US	62/028,121		2014-Jul-23
US	16/053,498	US2018/0376273	2015-Jul-09
US	15/327,314	US2017/0208415A1	2015-Jul-09
WO	PCT/US15/39763	WO2016/014254	2015-Jul-09
US	62/055,357		2014-Sep-25
US	15/512,016	US2017/0294051A1	2015-Sep-09
WO	PCT/US15/49189	WO2016/048658	2015-Sep-09
EP	15763119.3	3201859	2015-Aug-14
US	62/057,536		2014-Sep-30
US	15/512,018	10,620,900	2015-Aug-14
WO	PCT/US15/45362	WO2016/053486	2015-Aug-14
EP	15793953.9	3215956	2015-Oct-20
US	62/076,869		2014-Nov-07
US	15/524,365	US2018/0276896	2015-Oct-20
WO	PCT/US15/56360	WO2016/073185	2015-Oct-20
US	62/102,430		2015-Jan-12
US	15/542,748	US2018/0276882	2015-Dec-30
WO	PCT/US15/68087	WO2016/114930	2015-Dec-30
DE	15801025.6	60 2015 073 946.9	2015-Nov-06
EP	15801025.6	3219098	2015-Nov-06
FR	15801025.6	3219098	2015-Nov-06

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GB	15801025.6	3219098	2015-Nov-06
NL	15801025.6	3219098	2015-Nov-06
US	62/079,880		2014-Nov-14
US	16/233,828	10,701,320	2015-Nov-06
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US	15/525,518	10,205,910	2015-Nov-06
WO	PCT/US15/59576	WO2016/077180	2015-Nov-06
US	62/202,431		2015-Aug-07
WO	PCT/US16/45654	WO2017/027338	2016-Aug-04
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WO	PCT/US16/047436	WO2017/034897	2016-Aug-17
US	62/199,723		2015-Jul-31
EP	16757776.6	3335418	2016-Aug-12
US	62/205,487		2015-Aug-14
US	16/894,603	11,363,240	2016-Aug-12
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US	15/752,239	10701318	2016-Aug-12
WO	PCT/US16/46848	WO2017/030985	2016-Aug-12
DE	16751452.0	602016022164.0	2016-Aug-04
EP	19195338.9	3594787	2016-Aug-04
EP	16751452.0	3332313	2016-Aug-04
FR	16751452.0	3332313	2016-Aug-04
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NL	16751452.0	3332313	2016-Aug-04
US	62/201,954		2015-Aug-06
US	16/890,439	US-2020-0301501-A1	2016-Aug-04
US	15/749,756	10705595	2016-Aug-04
WO	PCT/US16/45653	WO2017/024181	2016-Aug-04
US	62/188,202		2015-Jul-02
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US	62/209,193		2015-Aug-24
US	16/687,157	11,210,858	2016-Aug-17
US	15/754,551	10,515,482	2016-Aug-17
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CN	201680058637.3	ZL201680058637.3	2016-Sep-30
DE	16788836.1	602016024388.1	2016-Sep-30
EP	19208243.6	3629136	2016-Sep-30
EP	16788836.1	3360029	2016-Sep-30
FR	16788836.1	3360029	2016-Sep-30
GB	16788836.1	3360029	2016-Sep-30
US	62/239,143		2015-Oct-08
US	16/694,808	US-2020-0089458-A1	2016-Sep-30
US	15/763,379	10545717	2016-Sep-30
WO	PCT/US16/54931	WO2017/062289	2016-Sep-30
US	62/261,029		2015-Nov-30
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DE	16801664.0	3377961	2016-Nov-10
EP	16801664.0	3377961	2016-Nov-10
FR	16801664.0	3377961	2016-Nov-10
GB	16801664.0	3377961	2016-Nov-10
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US	62/256,566		2015-Nov-17
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WO	PCT/US16/61378	WO2017/087251	2016-Nov-10
US	62/279,127		2016-Jan-15
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US	62/316,884		2016-Apr-01
US	17/008,065	11,488,364	2017-Mar-24
US	16/087,029	10762712	2017-Mar-24
WO	PCT/US17/024072	WO2017/172528	2017-Mar-24
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US	62/371,698		2016-Aug-05
WO	PCT/US17/45358	WO2018/027067	2017-Aug-03
EP	17758735.9	3500909	2017-Aug-17
US	62/377,210		2016-Aug-19
US	16/325,606	2019/0179426	2017-Aug-17
WO	PCT/US17/47419	WO2018/035362	2017-Aug-17
US	62/357,060		2016-Jun-30
WO	PCT/US17/38820	WO2018/005235	2017-Jun-22
US	62/378,630		2016-Aug-23
WO	PCT/US17/47605	WO2018/039071	2017-Aug-18
US	62/424,190		2016-Nov-18
WO	PCT/US17/060914	WO2018/093661	2017-Nov-09
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US	62/428,301		2016-Nov-30
EP	17826644.1	3559786	2017-Dec-14
US	62/437,455		2016-Dec-21
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US	16/466,600	11,024,091	2017-Dec-14
WO	PCT/US17/66499	WO2018/118661	2017-Dec-14
DE	17826074.1	602017032396.9	2017-Dec-14
EP	17826074.1	3559785	2017-Dec-14
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US	62/437,458		2016-Dec-21
US	17/067,316	11,113,895	2017-Dec-14
US	16/466,611	10,930,082	2017-Dec-14
WO	PCT/US17/66472	WO2018/118657	2017-Dec-14
US	62/445,641		2017-Jan-12
WO	PCT/US18/12992	WO2018/132385	2018-Jan-09
DE	18701915.3	602018019318.9	2018-Jan-11
EP	18701915.3	3571845	2018-Jan-11
FR	18701915.3	3571845	2018-Jan-11
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US	62/448,682		2017-Jan-20
US	16/477,152	10,863,159	2018-Jan-11
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CN	202111419904.4	CN 114390350 A	2018-Jan-16
CN	201880007345.6	ZL201880007345.6	2018-Jan-16
EP	22211702.0		2018-Jan-16
EP	18714376.3	3571849	2018-Jan-16
US	62/447,632		2017-Jan-18
US	17/496,376	US-2022-0028124-A1	2018-Jan-16
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US	15/928,669	US2018/0276891	2018-Mar-22
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EP	18707823.3	3583579	2018-Feb-13
US	62/461,034		2017-Feb-20
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CN	201880053403.9	CN 110998566 A	2018-Jun-22
EP	18746338.5	3646581	2018-Jun-22
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CN	201880009301.7	CN110249291A	2018-Jan-25
EP	18705041.4	3577631	2018-Jan-25
US	62/453,317		2017-Feb-01
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WO	PCT/US18/015264	WO2018/144315	2018-Jan-25
US	62/476,333		2017-Mar-24
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US	15/908,305	11184599	2018-Feb-28
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EP	18715444.8	3602245	2018-Mar-16
US	62/474,341		2017-Mar-21
US	17/221,593	11,360,572	2018-Mar-16
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US	16/493,678	10,969,874	2018-Mar-16
WO	PCT/US18/022976	WO2018/175257	2018-Mar-16
US	62/504,948		2017-May-11
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US	62/517,096		2017-Jun-08
US	62/476,318		2017-Mar-24
WO	PCT/US18/023166	WO2018/175335	2018-Mar-19
US	62/491,578		2017-Apr-28
WO	PCT/US18/028638	WO2018/200337	2018-Apr-20
CN	201880045898.0	CN 110869980 A	2018-May-11
EP	18728777.6	3625772	2018-May-11
US	62/508,120		2017-May-18
US	16/611,803	11,202,051	2018-May-11
WO	PCT/US18/032374	WO2018/213131	2018-May-11
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CN	201880050657.5	ZL201880050657.5	2018-May-31
EP	18735746.2	3635949	2018-May-31
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CN	201880033363.1	CN 11066301 A	2018-May-10
EP	18733379.4	3631601	2018-May-10
US	62/510,099		2017-May-23
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US	16/614,293	11,276,375	2018-May-10
WO	PCT/US18/32121	WO2018/217470	2018-May-10
US	62/491,586		2017-Apr-28
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CN	201880035338.7	CN 110709895 A	2018-May-16
EP	18733015.4	3631769	2018-May-16

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US	16/617,982	2020/0193648	2018-May-16
WO	PCT/US18/032948	WO2018/222390	2018-May-16
US	62/530,645		2017-Jul-10
US	62/561,019		2017-Sep-20
US	62/571,195		2017-Oct-11
US	62/537,271		2017-Jul-26
US	62/545,287		2017-Aug-14
US	62/547,528		2017-Aug-18
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US	62/595,219		2017-Dec-06
CN	202210568934.X	CN 115052139 A	2019-Jan-16
CN	201980018130.9	ZL201980018130.9	2019-Jan-16
DE	19704107.2	602019012601.8	2019-Jan-16
EP	19704107.2	3741113	2019-Jan-16
FR	19704107.2	3741113	2019-Jan-16
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US	62/619,401		2018-Jan-19
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WO	PCT/US19/013803	WO2019/143688	2019-Jan-16
US	62/561,005		2017-Sep-20
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EP	18836442.6	3732662	2018-Dec-21
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WO	PCT/US18/067206	WO2019/133505	2018-Dec-21
US	62/619,407		2018-Jan-19
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CN	201980031588.8	CN 112136324 A	2019-Mar-20
EP	19715640.9		2019-Mar-20
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MX	MX/A/2020/009791		2019-Mar-20
US	62/647,568		2018-Mar-23
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WO	PCT/US2019/023149	WO2019/183211	2019-Mar-20
US	62/630,598		2018-Feb-14
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WO	PCT/US19/018018	WO2019/164745	2019-Feb-14
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EP	19722464.5	3788457	2019-Apr-26
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US	17/966,532		2019-Apr-26
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WO	PCT/US19/029425	2019/212902	2019-Apr-26
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EP	19720296.3	3782010	2019-Apr-12
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