

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

EPAS ID: PAT6374306

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
INTERDIGITAL CE PATENT HOLDINGS, SAS	09/11/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERDIGITAL MADISON PATENT HOLDINGS, SAS
<b>Street Address:</b>	3 RUE DU COLONEL MOLL
<b>City:</b>	PARIS
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	75017
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14424288
<b>Application Number:</b>	15300041
<b>Application Number:</b>	15567592
<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>	ezachari@anaqua.com
<b>Correspondent Name:</b>	ELENI ZACHARI
<b>Address Line 1:</b>	184 SHEPHERDS BUSH RD
<b>Address Line 4:</b>	LONDON, UNITED KINGDOM W67NL
<b>ATTORNEY DOCKET NUMBER:</b>	TU-INT001-US-ICPH
<b>NAME OF SUBMITTER:</b>	ELENI ZACHARI
<b>SIGNATURE:</b>	/Eleni Zachari/
<b>DATE SIGNED:</b>	10/29/2020
<b>Total Attachments: 51</b>	
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source=ICPH to Madison Assignment (fully executed)#page5.tif	



## PATENT ASSIGNMENT

This PATENT ASSIGNMENT, effective as of September 11, 2019, is made by and between InterDigital CE Patent Holdings, SAS, a company organized and existing under the laws of France, with a registered address of 3 rue du Colonel Moll 75017, Paris, France (hereinafter "Assignor"), and InterDigital Madison Patent Holdings, SAS, a company organized and existing under the laws of France, with a registered address of 3 rue du Colonel Moll 75017, Paris, France (hereinafter "Assignee").

WHEREAS:

Assignor is the sole owner of the patents and patent applications listed in the attached Exhibit A (hereinafter "Patents"); and

Assignee is desirous of acquiring all of Assignor's right, title and interest in and to the Patents.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound hereby, Assignor has sold, assigned and transferred, and does hereby sell, assign and transfer to Assignee the entire right, title and interest in and to any and all of the following:

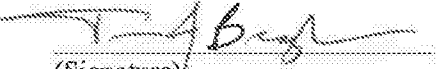
- (i) the Patents, including any and all inventions, invention disclosures, improvements and discoveries disclosed or claimed therein (hereinafter "Inventions"), for the United States, its possessions and territories and all foreign countries, regions and territories;
- (ii) the rights of priority created 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 Assignment and sale had not been made.

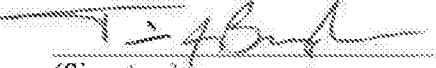
AND, this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment.

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 **InterDigital CE Patent Holdings, SAS**

By  2/6/20  
(Signature) (Date)  
Timothy Berghuis President  
(Print Name) (Print Title)

SIGNED for and on behalf of **InterDigital Madison Patent Holdings, SAS**

By  2/6/20  
(Signature) (Date)  
Timothy Berghuis President  
(Print Name) (Print Title)

**EXHIBIT A**

Country	Application No.	Filing Date	Patent No.
BR	1120150119964	2012-Dec-24	
CN	201280077593.0	2012-Dec-24	ZL201280077593.0
EP	12890761.5	2012-Dec-24	
JP	2015-548146	2012-Dec-24	
KR	10-2015-7016709	2012-Dec-24	10-2044055
US	14/655043	2012-Dec-24	10,412,376
WO	PCT/CN12/087348	2012-Dec-24	
CN	201380057048.X	2013-Oct-30	
EP	12306356.2	2012-Oct-31	
EP	13789739.3	2013-Oct-30	
JP	2015-540114	2013-Oct-30	
KR	10-2015-7010959	2013-Oct-30	
TW	102137590	2013-Oct-18	
US	14/438976	2013-Oct-30	10,408,888
WO	PCT/EP13/072727	2013-Oct-30	
CN	201280077995.0	2012-Dec-03	
EP	12799469.7	2012-Dec-03	
JP	2015-545021	2012-Dec-03	
KR	10-2015-7017497	2012-Dec-03	
US	14/648719	2012-Dec-03	
WO	PCT/US12/067578	2012-Dec-03	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
BR	1120140325405	2013-Jun-24	
CN	201380034304.3	2013-Jun-24	
EP	12305741.6	2012-Jun-26	
EP	13734685.4	2013-Jun-24	
JP	2015-519025	2013-Jun-24	
KR	10-2014-7036267	2013-Jun-24	
US	14/411404	2013-Jun-24	10,003,790
WO	PCT/EP13/063150	2013-Jun-24	
CN	201280076837.3	2012-Nov-30	
EP	12889058.9	2012-Nov-30	
JP	2015-544292	2012-Nov-30	
KR	10-2015-7013931	2012-Nov-30	
US	14/648701	2012-Nov-30	
WO	PCT/CN12/085637	2012-Nov-30	
CN	201380066084.2	2013-Dec-16	ZL201380066084.2
EP	13818707.5	2013-Dec-16	
FR	1262179	2012-Dec-17	
HK	16104028.0	2016-Apr-08	
ID	P00201503672	2013-Dec-16	P00201503672
IN	5023/DELNP/2015	2013-Dec-16	
JP	2015-547059	2013-Dec-16	6334557
KR	10-2015-7015741	2013-Dec-16	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
TW	102145994	2013-Dec-13	I654537
US	14/652447	2013-Dec-16	
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ZA	2015/04358	2013-Dec-16	2015/04358
CN	201280077813.X	2012-Dec-19	ZL201280077813.X
EP	12824889.5	2012-Dec-19	
JP	2015-549330	2012-Dec-19	6335191
KR	10-2015-7016005	2012-Dec-19	10-1970044
US	14/649060	2012-Dec-19	
WO	PCT/US12/070682	2012-Dec-19	
CN	201380022639.3	2013-May-01	
EP	13724060.2	2013-May-01	
JP	2015-510401	2013-May-01	
KR	10-2014-7030736	2013-May-01	
US	61/640905	2012-May-01	
US	14/390130	2013-May-01	
WO	PCT/US13/038977	2013-May-01	
AT	13005348.1	2013-Nov-13	2733620
AU	2013257430	2013-Nov-12	
BE	13005348.1	2013-Nov-13	2733620
BR	1020130290220	2013-Nov-11	
CN	201310565621.X	2013-Nov-14	ZL201310565621.X

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
DE	13005348.1	2013-Nov-13	602013007490.9
EP	13005348.1	2013-Nov-13	2733620
EP	16150323.0	2016-Jan-06	
ES	13005348.1	2013-Nov-13	2733620
FI	13005348.1	2013-Nov-13	2733620
FR	1260842	2012-Nov-14	
FR	13005348.1	2013-Nov-13	2733620
GB	13005348.1	2013-Nov-13	2733620
HK	14111673.5	2014-Nov-19	HK1198217
ID	P00201304542	2013-Nov-14	P00201304542
IN	3219/DEL/13	2013-Oct-31	
IT	13005348.1	2013-Nov-13	2733620
JP	2013-236113	2013-Nov-14	6406809
KR	10-2013-0138350	2013-Nov-14	
MX	MX/A/13/013230	2013-Nov-13	340514
MY	2013003876	2013-Oct-23	MY-164080-A
NL	13005348.1	2013-Nov-13	2733620
PT	13005348.1	2013-Nov-13	2733620
RU	2013149832	2013-Nov-07	2649764
SE	13005348.1	2013-Nov-13	2733620
TR	13005348.1	2013-Nov-13	2733620
TW	102139436	2013-Oct-31	1639083



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	14/076446	2013-Nov-11	9,506,976
VN	1-2013-03529	2013-Nov-07	20434
ZA	2013/08499	2013-Nov-12	2013/08499
BR	1120140312010	2012-Jun-15	
CN	201280073980.7	2012-Jun-15	
EP	12728360.4	2012-Jun-15	
JP	2015-517227	2012-Jun-15	5972458
KR	10-2014-7035223	2012-Jun-15	
US	14/408070	2012-Jun-15	10,473,727
WO	PCT/US12/042588	2012-Jun-15	
BR	1120140314080	2013-Jun-18	
CN	201380037406.0	2013-Jun-18	
EP	13732342.4	2013-Jun-18	
JP	2015-518503	2013-Jun-18	
KR	10-2014-7035617	2013-Jun-18	
US	61/660949	2012-Jun-18	
US	14/407999	2013-Jun-18	9,479,818
WO	PCT/US13/046216	2013-Jun-18	
CN	201380045567.4	2013-Aug-28	ZL201380045567.4
DE	13758788.7	2013-Aug-28	602013045584.8
EP	12306035.2	2012-Aug-30	
EP	13758788.7	2013-Aug-28	2891323

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
FR	13758788.7	2013-Aug-28	2891323
GB	13758788.7	2013-Aug-28	2891323
HK	15112614.4	2015-Dec-23	
ID	P00201501235	2013-Aug-28	
IN	789/CHENP/2015	2013-Aug-28	
JP	2015-528994	2013-Aug-28	6359539
KR	10-2015-7004747	2013-Aug-28	
NL	13758788.7	2013-Aug-28	2891323
TW	102129386	2013-Aug-16	1577186
US	14/424499	2013-Aug-28	10,057,624
WO	PCT/EP13/067749	2013-Aug-28	
ZA	2015/00837	2013-Aug-28	2015/00837
CN	201380035729.6	2013-Jul-03	
EP	13734063.4	2013-Jul-03	
FR	1256380	2012-Jul-03	
JP	2015-519209	2013-Jul-03	
KR	10-2015-7002604	2013-Jul-03	
US	14/412671	2013-Jul-03	9,641,792
WO	PCT/EP13/064033	2013-Jul-03	
CA	2897908	2014-Jan-14	
CN	201480005543.0	2014-Jan-14	ZL201480005543.0
DE	14700628.2	2014-Jan-14	602014044360.5

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	13305071.6	2013-Jan-21	
EP	14700628.2	2014-Jan-14	2946565
FR	14700628.2	2014-Jan-14	2946565
JP	2015-553058	2014-Jan-14	6268191
KR	10-2015-7019745	2014-Jan-14	
MX	MX/A/15/009357	2014-Jan-14	357946
MY	2015001722	2014-Jan-14	
RU	2015135390	2014-Jan-14	2648987
US	14/761946	2014-Jan-14	
WO	PCT/EP14/050593	2014-Jan-14	
CN	201380051889.X	2013-Sep-30	
EP	12306199.6	2012-Oct-02	
EP	13767016.2	2013-Sep-30	
JP	2015-533629	2013-Sep-30	
KR	10-2015-7008365	2013-Sep-30	
US	14/432792	2013-Sep-30	9,691,269
WO	PCT/EP13/070366	2013-Sep-30	
CN	201480017379.5	2014-Jan-23	
EP	14743463.3	2014-Jan-23	
JP	2015-555257	2014-Jan-23	
KR	10-2015-7020158	2014-Jan-23	
TW	103102813	2014-Jan-24	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	61/756021	2013-Jan-24	
US	14/762512	2014-Jan-23	10,275,532
WO	PCT/US14/012653	2014-Jan-23	
BR	1120150050603	2013-Jul-23	
CN	201380046619.X	2013-Jul-23	ZL201380046619.X
DE	13750413.0	2013-Jul-23	2893787
EP	13750413.0	2013-Jul-23	2893787
FR	13750413.0	2013-Jul-23	2893787
GB	13750413.0	2013-Jul-23	2893787
JP	2015-531079	2013-Jul-23	6085684
KR	10-2015-7005693	2013-Jul-23	
NL	13750413.0	2013-Jul-23	2893787
US	61/698077	2012-Sep-07	
US	14/424288	2013-Jul-23	9,265,180
WO	PCT/US13/051624	2013-Jul-23	
CN	201380048527.5	2013-Sep-16	
DE	13762509.1	2013-Sep-16	602013048463.5
EP	12306126.9	2012-Sep-18	
EP	13762509.1	2013-Sep-16	2898654
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JP	2015-532381	2013-Sep-16	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
KR	10-2015-7006803	2013-Sep-16	
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US	14/428835	2013-Sep-16	10,389,701
WO	PCT/EP13/069178	2013-Sep-16	
CN	201380065941.7	2013-Dec-16	
EP	13805389.7	2013-Dec-16	
FR	1262130	2012-Dec-17	
JP	2015-548398	2013-Dec-16	
KR	10-2015-7015672	2013-Dec-16	
TW	102145993	2013-Dec-13	
US	14/652815	2013-Dec-16	9,621,042
WO	PCT/EP2013/076654	2013-Dec-16	
BR	1120150084656	2013-Oct-17	
CN	201380054313.9	2013-Oct-17	
DE	13786360.1	2013-Oct-17	602013059202.0
EP	13786360.1	2013-Oct-17	2910095
FR	13786360.1	2013-Oct-17	2910095
GB	13786360.1	2013-Oct-17	2910095
JP	2015-537844	2013-Oct-17	
KR	10-2015-7010075	2013-Oct-17	
NL	13786360.1	2013-Oct-17	2910095
US	61/715876	2012-Oct-19	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	14/435049	2013-Oct-17	9,603,286
WO	PCT/US13/065529	2013-Oct-17	
CN	201380077397.8	2013-Jun-14	
EP	13734556.7	2013-Jun-14	
JP	2016-519484	2013-Jun-14	
KR	10-2015-7035324	2013-Jun-14	
US	14/897743	2013-Jun-14	
WO	PCT/US13/045857	2013-Jun-14	
CN	201380064864.3	2013-Dec-03	
DE	13801544.1	2013-Dec-03	602013055141.3
EP	12306571.6	2012-Dec-12	
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US	14/651219	2013-Dec-03	9,924,219
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CN	201380077022.1	2013-May-29	
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Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	13728077.2	2013-May-29	3005709
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KR	2015-7034001	2013-May-29	
NL	13728077.2	2013-May-29	3005709
US	14/894693	2013-May-29	
WO	PCT/US13/043044	2013-May-29	
CA	2893845	2012-Dec-17	
KR	10-2015-7016042	2012-Dec-17	
MX	MX/A/15/007827	2012-Dec-17	345797
US	14/708410	2012-Dec-17	9,936,226
WO	PCT/US12/070054	2012-Dec-17	
EP	13715863.0	2013-Mar-28	
US	PCT/US13/034266	2013-Mar-28	
WO	PCT/US13/034266	2013-Mar-28	
DE	14703838.4	2014-Feb-11	602014054157.7
EP	13305185.4	2013-Feb-19	
EP	14703838.4	2014-Feb-11	2959667
FR	14703838.4	2014-Feb-11	2959667
GB	14703838.4	2014-Feb-11	2959667
NL	14703838.4	2014-Feb-11	2959667

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
TW	103104813	2014-Feb-14	
US	14/768545	2014-Feb-11	9,961,639
WO	PCT/EP14/052582	2014-Feb-11	
BR	1120150296904	2013-Jun-27	
CN	201380077197.2	2013-Jun-27	
DE	13737914.5	2013-Jun-27	602013058797.36
EP	13737914.5	2013-Jun-27	3014963
ES	13737914.5	2013-Jun-27	3014963
FR	13737914.5	2013-Jun-27	3014963
GB	13737914.5	2013-Jun-27	3014963
IT	13737914.5	2013-Jun-27	502019000078839
JP	2016-523712	2013-Jun-27	
KR	2015-7031946	2013-Jun-27	
NL	13737914.5	2013-Jun-27	3014963
PL	13737914.5	2013-Jun-27	3014963
RO	13737914.5	2013-Jun-27	3014963
TR	13737914.5	2013-Jun-27	3014963
US	14/778740	2013-Jun-27	9,736,964
WO	PCT/US13/048124	2013-Jun-27	
BR	1120150206700	2014-Feb-24	
CN	201480016505.5	2014-Feb-24	
DE	14709576.4	2014-Feb-24	602014051226.7



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	13305220.9	2013-Feb-27	
EP	13305980.8	2013-Jul-09	
EP	14709576.4	2014-Feb-24	2961503
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JP	2015-559479	2014-Feb-24	
KR	10-2015-7023038	2014-Feb-24	
NL	14709576.4	2014-Feb-24	2961503
US	14/770814	2014-Feb-24	10,536,682
WO	PCT/EP14/053554	2014-Feb-24	
US	61/781180	2013-Mar-14	
US	14/768721	2013-Jul-25	10,373,241
WO	PCT/US13/052003	2013-Jul-25	
CN	201480018829.2	2014-Mar-25	
DE	14711989.5	2014-Mar-25	602014049422.6
EP	13305393.4	2013-Mar-28	
EP	14305329.6	2014-Mar-07	
EP	14711989.5	2014-Mar-25	2979420
FR	14711989.5	2014-Mar-25	2979420
GB	14711989.5	2014-Mar-25	2979420
JP	2016-504624	2014-Mar-25	
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Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
NL	14711989.5	2014-Mar-25	2979420
US	14/780647	2014-Mar-25	9,961,078
WO	PCT/EP14/055911	2014-Mar-25	
BR	1120150290973	2014-May-20	
CN	201480029458.8	2014-May-20	
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EP	14725170.6	2014-May-20	
JP	2016-514367	2014-May-20	
JP	2018-196650	2018-Oct-18	
KR	2015-7033016	2014-May-20	
US	14/893106	2014-May-20	
WO	PCT/EP14/060313	2014-May-20	
CA	2913604	2013-Jun-05	
CN	201380078038.4	2013-Jun-05	
EP	13886571.2	2013-Jun-05	
HK	16111291.5	2016-Sep-27	
JP	2016-517112	2013-Jun-05	6246340
KR	2015-7034699	2013-Jun-05	
MX	MX/A/15/016735	2015-Dec-04	358108
MY	2015704178	2013-Jun-05	
RU	2015156328	2013-Jun-05	2642813
US	14/895870	2013-Jun-05	10,212,474

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
WO	PCT/CN13/076772	2013-Jun-05	
BR	1120160205855	2015-Mar-10	
CN	201580013075.6	2015-Mar-10	
EP	15711389.5	2015-Mar-10	
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KR	10-2016-7024796	2015-Mar-10	
US	61/950455	2014-Mar-10	
US	15/121409	2015-Mar-10	10,194,202
WO	PCT/US15/019571	2015-Mar-10	
US	61/836326	2013-Jun-18	
US	13/964392	2013-Aug-12	
DE	13306833.8	2013-Dec-23	602013043819.6
DE	14198090.4	2014-Dec-16	602014042732.4
EP	13306833.8	2013-Dec-23	2887634
EP	14198090.4	2014-Dec-16	2887636
FR	13306833.8	2013-Dec-23	2887634
FR	14198090.4	2014-Dec-16	2887636
GB	13306833.8	2013-Dec-23	2887634
GB	14198090.4	2014-Dec-16	2887636
NL	13306833.8	2013-Dec-23	2887634
NL	14198090.4	2014-Dec-16	2887636
US	14/579977	2014-Dec-22	9,472,162

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	201380078908.8	2013-Aug-21	
DE	13765759.9	2013-Aug-21	602013064850.6
EP	13765759.9	2013-Aug-21	3036601
FR	13765759.9	2013-Aug-21	3036601
GB	13765759.9	2013-Aug-21	3036601
JP	2016-535534	2013-Aug-21	
KR	10-2016-7006539	2013-Aug-21	
US	14/913363	2013-Aug-21	10,354,359
WO	PCT/IB13/001811	2013-Aug-21	
BR	1120160035275	2014-Sep-18	
CN	201480050500.4	2014-Sep-18	
EP	13306350.3	2013-Sep-30	
EP	14766746.3	2014-Sep-18	
JP	2016-517302	2014-Sep-18	
KR	10-2016-7008162	2014-Sep-18	
US	15/025982	2014-Sep-18	
WO	PCT/EP14/069926	2014-Sep-18	
BR	1120160034643	2013-Aug-27	
CN	201380078870.4	2013-Aug-27	
EP	13892140.8	2013-Aug-27	
JP	2016-537065	2013-Aug-27	
KR	10-2016-7004931	2013-Aug-27	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	14/915235	2013-Aug-27	9,967,508
WO	PCT/CN13/082381	2013-Aug-27	
CA	2921750	2014-Aug-11	
KR	10-2016-7007092	2014-Aug-11	
MX	MX/A/16/002319	2014-Aug-11	
US	61/868786	2013-Aug-22	
US	14/913399	2014-Aug-11	
WO	PCT/US14/050477	2014-Aug-11	
US	14/141085	2013-Dec-26	9,672,287
US	15/586972	2017-May-04	
CN	201480050966.4	2014-Aug-27	
DE	14766054.2	2014-Aug-27	602014019445.1
EP	14766054.2	2014-Aug-27	3047643
FR	14766054.2	2014-Aug-27	3047643
GB	14766054.2	2014-Aug-27	3047643
JP	2016-541996	2014-Aug-27	
KR	10-2016-7006547	2014-Aug-27	
NL	14766054.2	2014-Aug-27	3047643
US	61/878245	2013-Sep-16	
US	15/022038	2014-Aug-27	
WO	PCT/US14/052868	2014-Aug-27	
BR	1120160137779	2013-Dec-18	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	201380081758.6	2013-Dec-18	
DE	13818127.6	2013-Dec-18	602013050571.3
EP	13818127.6	2013-Dec-18	3085025
FR	13818127.6	2013-Dec-18	3085025
GB	13818127.6	2013-Dec-18	3085025
JP	2016-539307	2013-Dec-18	
KR	1020167018934	2013-Dec-18	
US	15/105425	2013-Dec-18	9,877,061
WO	PCT/US13/075915	2013-Dec-18	
EP	14307122.3	2014-Dec-22	
EP	15199719.4	2015-Dec-14	
US	14/977852	2015-Dec-22	10,257,491
BR	112016009073	2014-Oct-22	
CN	201480057883.8	2014-Oct-22	
EP	14795903.5	2014-Oct-22	
JP	2016-525021	2014-Oct-22	
KR	10-2016-7010760	2014-Oct-22	
US	61/894985	2013-Oct-24	
US	62/009538	2014-Jun-09	
US	15/031729	2014-Oct-22	10,141,627
WO	PCT/US14/061692	2014-Oct-22	
BR	1120160107098	2014-Oct-22	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	201480062481.7	2014-Oct-22	
DE	14795904.3	2014-Oct-22	602014014890.5
EP	14795904.3	2014-Oct-22	3069586
FR	14795904.3	2014-Oct-22	3069586
JP	2016-529897	2014-Oct-22	
KR	2016-7012760	2014-Oct-22	
NL	14795904.3	2014-Oct-22	3069586
US	61/903471	2013-Nov-13	
US	62/012545	2014-Jun-16	
US	15/035244	2014-Oct-22	9,877,411
US	15/869535	2018-Jan-12	10,314,204
WO	PCT/US14/061739	2014-Oct-22	
CN	201380079622.1	2013-Dec-30	
DE	13824454.6	2013-Dec-30	602013048539.9
EP	13824454.6	2013-Dec-30	3047642
FR	13824454.6	2013-Dec-30	3047642
GB	13824454.6	2013-Dec-30	3047642
JP	2016-541950	2013-Dec-30	
KR	10-2016-7006819	2013-Dec-30	
NL	13824454.6	2013-Dec-30	3047642
US	15/022019	2013-Dec-30	10,496,243
WO	PCT/US13/078273	2013-Dec-30	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	PCT/US15/049906	2015-Sep-14	
EP	15772106.9	2015-Sep-14	
JP	2017-513545	2015-Sep-14	
KR	10-2017-7006786	2015-Sep-14	
US	62/049874	2014-Sep-12	
US	15/510692	2015-Sep-14	
WO	PCT/US15/049906	2015-Sep-14	
CN	201480070785.8	2014-Dec-17	
EP	14814864.6	2014-Dec-17	
FR	1363560	2013-Dec-24	
JP	2016-542204	2014-Dec-17	
KR	10-2016-7016916	2014-Dec-17	
US	15/106781	2014-Dec-17	
WO	PCT/EP14/078314	2014-Dec-17	
CN	201580007424.3	2015-Jan-07	
EP	15701609.8	2015-Jan-07	
JP	2016-545364	2015-Jan-07	
KR	10-2016-7021558	2015-Jan-07	
TW	103145959	2014-Dec-27	
US	61/924647	2014-Jan-07	
US	61/972954	2014-Mar-31	
US	15/110398	2015-Jan-07	



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
WO	PCT/US15/010492	2015-Jan-07	
CN	201580052810.4	2015-Sep-21	
EP	14306524.1	2014-Sep-29	
JP	2017-516499	2015-Sep-21	
KR	10-2017-7008524	2015-Sep-21	
US	15/513361	2015-Sep-21	10,097,394
WO	PCT/US15/051167	2015-Sep-21	
CN	201480071619.X	2014-Dec-29	
EP	14827987.0	2014-Dec-29	
JP	2016-544382	2014-Dec-29	
KR	10-2016-7017615	2014-Dec-29	
US	61/923476	2014-Jan-03	
US	62/016446	2014-Jun-24	
US	15/109634	2014-Dec-29	10,225,624
WO	PCT/US14/072560	2014-Dec-29	
BR	1120170055279	2015-Sep-01	
CN	201580050411.4	2015-Sep-01	
EP	15764013.7	2015-Sep-01	
JP	PCT/US15/047864	2015-Sep-01	
KR	10-2017-7007195	2015-Sep-01	
MY	2017700679	2015-Sep-01	
TW	104128857	2015-Sep-01	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	62/051967	2014-Sep-18	
US	15/512138	2015-Sep-01	10,236,990
WO	PCT/US15/047864	2015-Sep-01	
BR	1120160225520	2014-Mar-28	
CN	201480077609.7	2014-Mar-28	
EP	14886768.2	2014-Mar-28	
JP	2016-557117	2014-Mar-28	
KR	10-2016-7026738	2014-Mar-28	
US	15/300041	2014-Mar-28	9,812,957
WO	PCT/CN14/074311	2014-Mar-28	
CN	201580027622.6	2015-Mar-27	
DE	15715202.6	2015-Mar-27	602015015527.0
EP	14305485.6	2014-Apr-02	
EP	15715202.6	2015-Mar-27	3127087
FR	15715202.6	2015-Mar-27	3127087
GB	15715202.6	2015-Mar-27	3127087
JP	2016-560785	2015-Mar-27	
KR	2016-7027366	2015-Mar-27	
NL	15715202.6	2015-Mar-27	3127087
US	15/301397	2015-Mar-27	
WO	PCT/EP15/056797	2015-Mar-27	
CN	201580009769.2	2015-Feb-23	ZL201589769.2

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	14305275.1	2014-Feb-27	
EP	15706783.6	2015-Feb-23	
JP	2016-550835	2015-Feb-23	
KR	10-2016-7022482	2015-Feb-23	
US	15/122167	2015-Feb-23	10,147,199
WO	PCT/EP15/053746	2015-Feb-23	
BR	1120170107597	2015-Oct-30	
CN	201580065685.0	2015-Oct-30	
EP	15794731.8	2015-Oct-30	
JP	2017-529798	2015-Oct-30	
KR	10-2017-7014886	2015-Oct-30	
US	62/087368	2014-Dec-04	
US	15/533059	2015-Oct-30	
WO	PCT/US15/058242	2015-Oct-30	
BR	1120170131196	2015-Nov-27	
CA	2970741	2015-Nov-27	
CN	201580074767.1	2015-Nov-27	
EP	14307100.9	2014-Dec-19	
EP	15802066.9	2015-Nov-27	
IN	201747020768	2015-Nov-27	
JP	2017-532764	2015-Nov-27	
KR	10-2017-7019861	2015-Nov-27	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
MX	MX/A/17/007945	2015-Nov-27	
RU	2017125315	2015-Nov-27	2706184
TW	104142585	2015-Dec-18	
US	15/537860	2015-Nov-27	
WO	PCT/EP15/077876	2015-Nov-27	
AU	2014388045	2014-Mar-28	2014388045
BR	1120160225570	2014-Mar-28	
CN	201480077439.2	2014-Mar-28	
DE	14887597.4	2014-Mar-28	602014038427.7
EP	14887597.4	2014-Mar-28	3123729
FR	14887597.4	2014-Mar-28	3123729
GB	14887597.4	2014-Mar-28	3123729
HK	17107183.3	2017-Jul-18	
JP	2016-558090	2014-Mar-28	6305558
KR	10-2016-7030014	2014-Mar-28	
NL	14887597.4	2014-Mar-28	3123729
TW	104104864	2015-Feb-13	1666932
US	15/300121	2014-Mar-28	10,523,996
VN	1-2016-03761	2014-Mar-28	
WO	PCT/CN14/074302	2014-Mar-28	
CN	201911132651.5	2015-Dec-22	
CN	201580070353.1	2015-Dec-22	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	14307155.3	2014-Dec-23	
EP	15813882.6	2015-Dec-22	
JP	2017-531168	2015-Dec-22	
KR	10-2017-7017219	2015-Dec-22	
TW	104143458	2015-Dec-23	
US	15/539433	2015-Dec-22	
WO	PCT/EP15/081089	2015-Dec-22	
BR	1120160240545	2015-Apr-14	
CN	201580025524.9	2015-Apr-14	ZL201580025524.9
EP	15717846.8	2015-Apr-14	
FR	1453486	2014-Apr-17	
FR	1454312	2014-May-14	
FR	1454302	2014-May-14	
HK	17107843.5	2017-Aug-08	
JP	2016-562782	2015-Apr-14	
KR	10-2016-7032031	2015-Apr-14	
MX	MX/A/16/013456	2015-Apr-14	
TW	104111514	2015-Apr-10	
US	15/304527	2015-Apr-14	10,271,446
VN	1-2016-04177	2015-Apr-14	
WO	PCT/EP15/058027	2015-Apr-14	
EP	14306017.6	2014-Jun-27	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	15/322442	2015-Jun-25	10,346,473
WO	PCT/EP15/064452	2015-Jun-25	
CN	201480081472.2	2014-Aug-22	
EP	14762140.3	2014-Aug-22	
JP	2017-507756	2014-Aug-22	6511132
KR	10-2017-7004892	2014-Aug-22	
US	15/505092	2014-Aug-22	
WO	PCT/US14/052234	2014-Aug-22	
AU	2015203024	2015-Jun-09	
BR	1020150145969	2015-Jun-18	
CN	201510340528.8	2015-Jun-18	ZL201510340528.8
DE	15172963.9	2015-Jun-19	602015019723.2
EP	14305964.0	2014-Jun-20	
EP	15172963.9	2015-Jun-19	2958011
FR	15172963.9	2015-Jun-19	2958011
GB	15172963.9	2015-Jun-19	2958011
HK	16104788.0	2016-Apr-27	
JP	2015-123419	2015-Jun-19	
KR	10-2015-0086035	2015-Jun-17	
NL	15172963.9	2015-Jun-19	2958011
TW	104118216	2015-Jun-05	1675687
US	14/741595	2015-Jun-17	10,241,753

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
VN	1-2015-02017	2015-Jun-08	22660
BR	1020150152949	2015-Jun-24	
CN	201510354732.5	2015-Jun-24	
DE	15173179.1	2015-Jun-22	602015006767.3
EP	14305999.6	2014-Jun-25	
EP	15173179.1	2015-Jun-22	2961211
FR	15173179.1	2015-Jun-22	2961211
GB	15173179.1	2015-Jun-22	2961211
JP	2015-126328	2015-Jun-24	
KR	10-2015-0089244	2015-Jun-23	
NL	15173179.1	2015-Jun-22	2961211
US	14/748119	2015-Jun-23	9,622,280
US	15/473792	2017-Mar-30	10,244,571
CN	201580055548.9	2015-Oct-12	
EP	14306623.1	2014-Oct-14	
EP	15778666.6	2015-Oct-12	
JP	2017-518295	2015-Oct-12	
KR	10-2017-7009838	2015-Oct-12	
TW	104132463	2015-Oct-02	1669708
US	15/517953	2015-Oct-12	9,990,936
WO	PCT/EP15/073526	2015-Oct-12	
BR	1120170108968	2014-Dec-10	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	201480083865.7	2014-Dec-10	
EP	14908041.8	2014-Dec-10	
US	15/534823	2014-Dec-10	10,477,632
WO	PCT/CN14/093476	2014-Dec-10	
BR	1120170045087	2015-Aug-28	
CN	PCT/US15/047333	2015-Aug-28	
DE	15839742.2	2015-Aug-28	3191881
EP	15839742.2	2015-Aug-28	3191881
FR	15839742.2	2015-Aug-28	3191881
GB	15839742.2	2015-Aug-28	3191881
JP	2017-512007	2015-Aug-28	
KR	10-2017-7006556	2015-Aug-28	
MY	2017700544	2015-Aug-28	
NL	15839742.2	2015-Aug-28	3191881
TW	104128855	2015-Aug-28	
US	62/048408	2014-Sep-10	
US	15/509326	2015-Aug-28	
WO	PCT/US15/047333	2015-Aug-28	
BR	1120160277392	2015-May-26	
CN	201580028168.6	2015-May-26	
EP	14305799.0	2014-May-28	
EP	15724674.5	2015-May-26	



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
JP	2016-569791	2015-May-26	
KR	10-2016-7033141	2015-May-26	
US	15/314497	2015-May-26	10,249,046
WO	PCT/EP15/061604	2015-May-26	
CN	201580051591.8	2015-Sep-22	
EP	15775049.8	2015-Sep-22	
JP	2017-515787	2015-Sep-22	
KR	10-2017-7007933	2015-Sep-22	
TW	104131503	2015-Sep-23	
US	62/053838	2014-Sep-23	
US	15/513575	2015-Sep-22	
WO	PCT/US15/051421	2015-Sep-22	
CN	201580028356.9	2015-Mar-31	
DE	15716341.1	2015-Mar-31	602015014731.6
EP	15716341.1	2015-Mar-31	3149863
FR	15716341.1	2015-Mar-31	3149863
JP	2016-569790	2015-Mar-31	
KR	10-2016-7033309	2015-Mar-31	
TW	104115073	2015-May-12	
US	62/004483	2014-May-29	
US	15/310466	2015-Mar-31	10,348,084
WO	PCT/US15/023487	2015-Mar-31	

*Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS*

Country	Application No.	Filing Date	Patent No.
BR	1020150172010	2015-Jul-17	
CN	201510430878.3	2015-Jul-21	
EP	14306178.6	2014-Jul-21	
EP	15175563.4	2015-Jul-07	
JP	2015-141771	2015-Jul-16	
KR	10-2015-0101070	2015-Jul-16	
US	14/803077	2015-Jul-19	10,327,033
EP	15747914.8	2015-Jul-27	
US	62/036700	2014-Aug-13	
US	15/501713	2015-Jul-27	10,062,271
WO	PCT/US15/042166	2015-Jul-27	
US	62/036703	2014-Aug-13	
US	14/823202	2015-Aug-11	10,019,889
BR	1120170131340	2015-Dec-01	
CN	201580069042.3	2015-Dec-01	
EP	15828556.9	2015-Dec-01	
US	62/094489	2014-Dec-19	
US	15/534052	2015-Dec-01	
WO	PCT/US15/063155	2015-Dec-01	
EP	14306896.3	2014-Nov-27	
US	14/953011	2015-Nov-26	10,169,886
BR	1120170023920	2015-Jun-24	

*Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS*

Country	Application No.	Filing Date	Patent No.
CN	201580040582.9	2015-Jun-24	
DE	15744743.4	2015-Jun-24	602015024037.5
EP	15744743.4	2015-Jun-24	3178163
FR	15744743.4	2015-Jun-24	3178163
JP	2017-503834	2015-Jun-24	
KR	10-2017-7003104	2015-Jun-24	
US	62/033033	2014-Aug-04	
US	15/501828	2015-Jun-24	10,158,155
WO	PCT/US15/037365	2015-Jun-24	
CN	201580037124.X	2015-Apr-30	
EP	15721515.3	2015-Apr-30	
JP	2017-500890	2015-Apr-30	
KR	10-2017-7003018	2015-Apr-30	
US	62/021685	2014-Jul-07	
US	15/324166	2015-Apr-30	
WO	PCT/US15/028594	2015-Apr-30	
CN	201580047111.0	2015-Aug-25	
EP	14306365.9	2014-Sep-05	
EP	14306947.4	2014-Dec-04	
EP	15766406.1	2015-Aug-25	
JP	2017-512383	2015-Aug-25	
KR	10-2017-7006109	2015-Aug-25	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
TW	104128191	2015-Aug-27	
US	15/508925	2015-Aug-25	
WO	PCT/EP15/069417	2015-Aug-25	
BR	1120170112671	2014-Dec-04	
CN	201480083755.0	2014-Dec-04	
EP	14907252.2	2014-Dec-04	
JP	2017-525336	2014-Dec-04	
KR	10-2017-7015259	2014-Dec-04	
US	15/533018	2014-Dec-04	10,120,121
WO	PCT/CN14/093056	2014-Dec-04	
BR	1120170104598	2014-Dec-04	
CN	201480083754.6	2014-Dec-04	
EP	14907294.4	2014-Dec-04	
JP	2017-528821	2014-Dec-04	6484715
KR	10-2017-7015023	2014-Dec-04	
US	15/533030	2014-Dec-04	10,267,977
WO	PCT/CN14/093058	2014-Dec-04	
CN	201580051350.3	2015-Aug-12	
EP	15756724.9	2015-Aug-12	
JP	2017-514696	2015-Aug-12	
KR	10-2017-7007764	2015-Aug-12	
US	62/053349	2014-Sep-22	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	15/513101	2015-Aug-12	
WO	PCT/US15/044778	2015-Aug-12	
CN	PCT/US15/056163	2015-Oct-19	
EP	15788527.8	2015-Oct-19	
JP	PCT/US15/056163	2015-Oct-19	
KR	PCT/US15/056163	2015-Oct-19	
US	62/068877	2014-Oct-27	
US	15/518087	2015-Oct-19	
WO	PCT/US15/056163	2015-Oct-19	
DE	15804789.4	2015-Dec-04	602015015764.8
EP	14306952.4	2014-Dec-04	
EP	15804789.4	2015-Dec-04	3227858
FR	15804789.4	2015-Dec-04	3227858
TW	104140825	2015-Dec-04	
US	15/533031	2015-Dec-04	
WO	PCT/EP15/078639	2015-Dec-04	
CN	201580075292.8	2015-Dec-04	
EP	15816621.5	2015-Dec-04	
JP	2017-530628	2015-Dec-04	
KR	10-2017-7015899	2015-Dec-04	
US	62/090460	2014-Dec-11	
US	15/535058	2015-Dec-04	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
WO	PCT/US15/063873	2015-Dec-04	
CN	201680062543.3	2016-Aug-31	
EP	16766161.0	2016-Aug-31	
JP	2018-530669	2016-Aug-31	
KR	10-2018-7006065	2016-Aug-31	
US	62/212668	2015-Sep-01	
US	15/756911	2016-Aug-31	
WO	PCT/US16/049786	2016-Aug-31	
BR	1120170083345	2014-Nov-24	
CA	2968716	2014-Nov-24	
CN	201480083316.X	2014-Nov-24	ZL201480083316.X
EP	14907073.2	2014-Nov-24	
IN	201717012983	2014-Nov-24	
JP	2017-527554	2014-Nov-24	6373501
KR	10-2017-7013988	2014-Nov-24	
MX	MX/A/17/006722	2014-Nov-24	362000
MY	2017701208	2014-Nov-24	
RU	2017121876	2014-Nov-24	2680253
US	15/527438	2014-Nov-24	
WO	PCT/CN14/092012	2014-Nov-24	
CN	201580054705.4	2015-Oct-06	
EP	15787072.6	2015-Oct-06	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
JP	2017-518932	2015-Oct-06	6590920
KR	10-2017-7009667	2015-Oct-06	
US	62/061684	2014-Oct-08	
US	62/097571	2014-Dec-29	
US	15/516755	2015-Oct-06	
WO	PCT/US15/054251	2015-Oct-06	
CN	201680015699.6	2016-Mar-14	
EP	16712145.8	2016-Mar-14	
JP	2017-540866	2016-Mar-14	
KR	10-2017-7026022	2016-Mar-14	
TW	105108315	2016-Mar-17	
US	62/134148	2015-Mar-17	
US	15/553846	2016-Mar-14	
WO	PCT/US2016/022248	2016-Mar-14	
CN	201680021905.4	2016-Apr-13	
EP	16718142.9	2016-Apr-13	
JP	2017-547445	2016-Apr-13	
KR	10-2017-7029610	2016-Apr-13	
US	62/147641	2015-Apr-15	
US	15/565831	2016-Apr-13	
WO	PCT/US16/027241	2016-Apr-13	
CN	201580070018.1	2015-Dec-18	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	14307148.8	2014-Dec-22	
EP	15813837.0	2015-Dec-18	
JP	2017-533234	2015-Dec-18	
KR	10-2017-7020234	2015-Dec-18	
US	15/538647	2015-Dec-18	10,297,009
WO	PCT/EP15/080462	2015-Dec-18	
CN	201610227930.X	2016-Feb-19	
EP	15305261.8	2015-Feb-20	
EP	16154363.2	2016-Feb-05	
HK	17101019.6	2017-Jan-26	
ID	P00201601026	2016-Feb-17	P00201601026
JP	2016-027475	2016-Feb-17	
KR	10-2016-18718	2016-Feb-17	
TW	105104677	2016-Feb-18	
US	15/048292	2016-Feb-19	10,165,049
BR	1120170204100	2016-Mar-17	
CN	201680017760.0	2016-Mar-17	
EP	15305417.6	2015-Mar-23	
EP	16714277.7	2016-Mar-17	
US	15/561049	2016-Mar-17	
WO	PCT/EP16/055838	2016-Mar-17	
CN	201680062061.8	2016-Aug-17	



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	16763370.0	2016-Aug-17	
JP	2018-533038	2016-Aug-17	
KR	10-2018-7010119	2016-Aug-17	
US	62/218679	2015-Sep-15	
US	15/759800	2016-Aug-17	
WO	PCT/US16/047379	2016-Aug-17	
EP	16727264.0	2016-May-18	
US	62/173012	2015-Jun-09	
US	15/580681	2016-May-18	
WO	PCT/US16/33060	2016-May-18	
DE	15305817.7	2015-May-29	3099076
EP	15305817.7	2015-May-29	3099076
FR	15305817.7	2015-May-29	3099076
GB	15305817.7	2015-May-29	3099076
US	15/168003	2016-May-28	10,484,671
CN	201680015509.0	2016-Mar-02	
EP	15290071.8	2015-Mar-13	
EP	16707439.2	2016-Mar-02	
JP	2017-548097	2016-Mar-02	
KR	10-2017-7025239	2016-Mar-02	
US	15/557944	2016-Mar-02	
WO	PCT/EP16/054397	2016-Mar-02	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
BR	1120170226570	2015-Sep-17	
CN	201580079082.6	2015-Sep-17	
EP	15890146.2	2015-Sep-17	
US	62/150079	2015-Apr-20	
US	15/567592	2015-Sep-17	10,374,645
WO	PCT/US15/050610	2015-Sep-17	
BR	1120180092720	2016-Nov-03	
CN	201680073146.6	2016-Nov-03	
EP	15306754.1	2015-Nov-05	
EP	16791387.0	2016-Nov-03	
US	15/773,354	2016-Nov-03	
WO	PCT/EP16/076613	2016-Nov-03	
DE	16192180.4	2016-Oct-04	602016007786.8
EP	15306584.2	2015-Oct-08	
EP	16192180.4	2016-Oct-04	3154265
FR	16192180.4	2016-Oct-04	3154265
GB	16192180.4	2016-Oct-04	3154265
NL	16192180.4	2016-Oct-04	3154265
US	15/288405	2016-Oct-07	10,313,647
BR	1120170226499	2015-Sep-17	
CN	201580081009.2	2015-Sep-17	
EP	15890143.9	2015-Sep-17	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
TW	105112321	2016-Apr-20	
US	62/150062	2015-Apr-20	
US	15/566762	2015-Sep-17	10,147,996
WO	PCT/US15/050583	2015-Sep-17	
CN	201680035195.0	2016-Jun-16	
EP	16734788.9	2016-Jun-16	
JP	2017-565049	2016-Jun-16	
KR	10-2017-7036072	2016-Jun-16	
US	62/181473	2015-Jun-18	
US	15736879	2017-Dec-15	
WO	PCT/US16/037741	2016-Jun-16	
BR	1120170280191	2016-May-12	
CN	201680037198.8	2016-May-12	
EP	16727019.8	2016-May-12	
US	62/184009	2015-Jun-24	
US	15/737383	2016-May-12	
WO	PCT/US16/032089	2016-May-12	
CA	2984059	2016-Apr-28	
CN	201680033193.8	2016-Apr-28	
DO	2017-0250	2016-Apr-28	
EP	15305671.8	2015-Apr-30	
EP	16719082.6	2016-Apr-28	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
KR	10-2017-7034265	2016-Apr-28	
MX	MX/A/17/013934	2016-Apr-28	
TW	105113598	2016-Apr-29	
US	15/569610	2016-Apr-28	10,333,756
US	16/401763	2019-May-02	10,554,463
US	16/713,755	2019-May-02	
VN	1-2017-04383	2016-Apr-28	
WO	PCT/EP16/059538	2016-Apr-28	
ZA	2017/07022	2016-Apr-28	2017/07022
CA	2984076	2016-Apr-28	
CN	201680031821.9	2016-Apr-28	
DO	2017-0249	2016-Apr-28	
EP	15305672.6	2015-Apr-30	
EP	16723274.3	2016-Apr-28	
KR	10-2017-7030994	2016-Apr-28	
MX	MX/A/17/013935	2016-Apr-28	367719
TW	105113579	2016-Apr-29	
US	15/569630	2016-Apr-28	10,305,718
VN	1-2017-04382	2017-Nov-02	
WO	PCT/EP16/059550	2016-Apr-28	
ZA	2017/07023	2016-Apr-28	
BR	1120170271745	2016-Jun-16	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
CN	201680035412.6	2016-Jun-16	
EP	16732861.6	2016-Jun-16	
US	62/180849	2015-Jun-17	
US	15/572357	2016-Jun-16	
WO	PCT/US16/037768	2016-Jun-16	
BR	1120180101281	2015-Dec-10	
CN	201580085236.2	2015-Dec-10	
EP	15910066.8	2015-Dec-10	
US	16/060940	2015-Dec-10	
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CN	201680042917.5	2016-Jul-20	
EP	16750302.8	2016-Jul-20	
JP	2017-561680	2016-Jul-20	
KR	10-2017-703304	2016-Jul-20	
US	62/195856	2015-Jul-23	
US	15/574435	2016-Jul-20	
WO	PCT/US16/043056	2016-Jul-20	
CN	201680035678.0	2016-Jul-20	
EP	16750303.6	2016-Jul-20	
JP	2018-503237	2016-Jul-20	
KR	10-2017-7036778	2016-Jul-20	
US	62/195866	2015-Jul-23	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
US	15/574445	2016-Jul-20	
WO	PCT/US16/43058	2016-Jul-20	
AU	2016238885	2016-Oct-06	
BR	1020160242932	2016-Oct-18	
CN	201610906520.8	2016-Oct-18	
DE	16193109.2	2016-Oct-10	602016003563.4
EP	15306668.3	2015-Oct-19	
EP	16193109.2	2016-Oct-10	3160148
ES	16193109.2	2016-Oct-10	3160148
FR	16193109.2	2016-Oct-10	3160148
GB	16193109.2	2016-Oct-10	3160148
HK	17110245.3	2017-Oct-12	
IT	16193109.2	2016-Oct-10	502018000021682
JP	2016-203286	2016-Oct-17	
KR	10-2016-0135229	2016-Oct-18	
NL	16193109.2	2016-Oct-10	3160148
PL	16193109.2	2016-Oct-10	3160148
RO	16193109.2	2016-Oct-10	3160148
TR	16193109.2	2016-Oct-10	3160148
TW	105133129	2016-Oct-14	
US	15/294771	2016-Oct-16	10,057,634
VN	1-2016-03763	2016-Oct-06	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
BR	1120170284456	2016-Jun-22	
CN	201680043232.2	2016-Jun-22	
EP	16734828.3	2016-Jun-22	
US	62/186885	2015-Jun-30	
US	15/741228	2016-Jun-22	
WO	PCT/US16/038669	2016-Jun-22	
CN	201611227507.6	2016-Dec-27	
EP	15307187.3	2015-Dec-31	
JP	2016-239189	2016-Dec-09	
KR	10-2016-0183483	2016-Dec-30	
US	15/396560	2016-Dec-31	
BR	1020160300983	2016-Dec-21	
CN	201611190997.7	2016-Dec-21	
DE	16204139.6	2016-Dec-14	602016009806.7
EP	15307072.7	2015-Dec-21	
EP	16204139.6	2016-Dec-14	3185456
FR	16204139.6	2016-Dec-14	3185456
GB	16204139.6	2016-Dec-14	3185456
JP	2016-240685	2016-Dec-12	
KR	10-2016-0172750	2016-Dec-16	
NL	16204139.6	2016-Dec-14	3185456
US	15/387611	2016-Dec-21	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
BR	1020160303230	2016-Dec-22	
CN	201611204492.1	2016-Dec-22	
EP	16204069.5	2016-Dec-14	
JP	2016-243710	2016-Dec-15	
KR	10-2016-0175703	2016-Dec-21	
US	14/978682	2015-Dec-22	
US	15/388524	2016-Dec-22	
BR	1120180124265	2016-Dec-12	
CN	201680080484.2	2016-Dec-12	
EP	16836134.3	2016-Dec-12	
US	62/268577	2015-Dec-17	
US	16/060930	2016-Dec-12	
WO	PCT/US16/066079	2016-Dec-12	
BR	1120180086860	2016-Oct-26	
CN	201680062210.0	2016-Oct-26	
EP	16794829.8	2016-Oct-26	
TW	105135164	2016-Oct-28	
US	62/247376	2015-Oct-28	
US	15/768725	2016-Oct-26	
WO	PCT/US16/058843	2016-Oct-26	
CA	3001901	2016-Sep-30	
CN	201680061078.1	2016-Sep-30	



Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
DO	2018-0093	2016-Sep-30	
EP	16785592.3	2016-Sep-30	
KR	10-2018-7010711	2016-Sep-30	
MX	MX/A/18/004732	2016-Sep-30	
US	62/243300	2015-Oct-19	
US	15/760566	2016-Sep-30	
VN	1-2018-01353	2016-Sep-30	
WO	PCT/US16/054603	2016-Sep-30	
ZA	2018/01882	2016-Sep-30	2018/01882
CN	201610982198.7	2016-Nov-08	
EP	15306776.4	2015-Nov-09	
JP	2016-217107	2016-Nov-07	
KR	10-2016-0147427	2016-Nov-07	
US	15/343254	2016-Nov-04	10,319,075
BR	1020160298580	2016-Dec-19	
CN	201611272971.7	2016-Dec-19	
EP	15307052.9	2015-Dec-18	
EP	16204458.0	2016-Dec-15	
JP	2016-244265	2016-Dec-16	
KR	10-2016-0172793	2016-Dec-16	
US	15/382720	2016-Dec-18	10,251,028
CN	201780008118.0	2017-Jan-18	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
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EP	17702306.6	2017-Jan-18	
JP	2018-538603	2017-Jan-18	
KR	10-2018-7021233	2017-Jan-18	
TW	106101080	2017-Jan-13	
US	16/070284	2017-Jan-18	10,536,745
WO	PCT/EP17/050937	2017-Jan-18	
CN	201611271049.6	2016-Dec-30	
DE	15307176.6	2015-Dec-30	602015038159.9
EP	15307176.6	2015-Dec-30	3188019
FR	15307176.6	2015-Dec-30	3188019
GB	15307176.6	2015-Dec-30	3188019
JP	2016-250869	2016-Dec-26	
KR	10-2016-0180055	2016-Dec-27	
NL	15307176.6	2015-Dec-30	3188019
US	15/393207	2016-Dec-28	
CN	201580085657.5	2015-Dec-30	
EP	15826119.8	2015-Dec-30	
JP	2018-534118	2015-Dec-30	
KR	10-2018-7021537	2015-Dec-30	
US	16/067584	2015-Dec-30	
WO	PCT/US15/068148	2015-Dec-30	

Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS

Country	Application No.	Filing Date	Patent No.
EP	16305559.3	2016-May-13	
EP	17726111.2	2017-May-11	
US	16/098189	2017-May-11	10,455,263
WO	PCT/EP17/061389	2017-May-11	
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EP	16305307.7	2016-Mar-21	
EP	17160893.8	2017-Mar-14	
JP	2017-052101	2017-Mar-17	
KR	10-2017-0034952	2017-Mar-20	
US	15/464974	2017-Mar-21	
CN	201710151792.6	2017-Mar-14	
DE	17158159.8	2017-Feb-27	602017001129.0
EP	16305277.2	2016-Mar-15	
EP	17158159.8	2017-Feb-27	3220669
FR	17158159.8	2017-Feb-27	3220669
GB	17158159.8	2017-Feb-27	3220669
JP	2017-047964	2017-Mar-14	
KR	10-2017-0031844	2017-Mar-14	
NL	17158159.8	2017-Feb-27	3220669
US	15/459458	2017-Mar-15	10,200,789
EP	16305340.8	2016-Mar-24	
EP	17711595.3	2017-Mar-10	

*Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS*

Country	Application No.	Filing Date	Patent No.
US	16/087,641	2017-Mar-10	10,511,922
WO	PCT/EP17/055690	2017-Mar-10	
CN	201680053682.X	2016-Sep-15	
EP	16777830.7	2016-Sep-15	
JP	2018-513333	2016-Sep-15	
KR	10-2018-7007419	2016-Sep-15	
US	62/372470	2016-Aug-09	
US	15/760194	2016-Sep-15	
WO	PCT/US16/051809	2016-Sep-15	
CN	201780040625.2	2017-Jun-27	
EP	16305824.1	2016-Jun-30	
EP	17736593.9	2017-Jun-27	
JP	2018-567257	2017-Jun-27	
KR	10-2018-7037651	2017-Jun-27	
US	16/314435	2017-Jun-27	
WO	PCT/EP17/065917	2017-Jun-27	
CN	201780040355.5	2017-Jun-13	
EP	16305781.3	2016-Jun-28	
EP	17729137.4	2017-Jun-13	
JP	2018-567711	2017-Jun-13	
KR	10-2018-7037505	2017-Jun-13	
US	16/314159	2017-Jun-13	

*Patent Assignment: InterDigital CE Patent Holdings, SAS to InterDigital Madison Patent Holdings, SAS*

Country	Application No.	Filing Date	Patent No.
WO	PCT/EP17/064342	2017-Jun-13	
CN	201680086171.8	2016-Jun-22	
EP	16735788.8	2016-Jun-22	
JP	2018-561063	2016-Jun-22	
KR	10-2018-7033846	2016-Jun-22	
US	16/305,037	2016-Jun-22	
WO	PCT/US16/38672	2016-Jun-22	
BR	1020170149498	2017-Jul-12	
CN	201710564551.4	2017-Jul-11	
EP	16305900.9	2016-Jul-12	
EP	16183670.5	2016-Aug-11	
EP	17179350.8	2017-Jul-03	
US	15/647316	2017-Jul-12	