

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INTERDIGITAL CE PATENT HOLDINGS, SAS	11/02/2020
RECEIVING PARTY DATA	
Name:	INTERDIGITAL MADISON PATENT HOLDINGS, SAS
Street Address:	3 RUE DU COLONEL MOLL
City:	PARIS
State/Country:	FRANCE
Postal Code:	75017
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	16471494
Application Number:	16347439
Application Number:	16476585
Application Number:	16620567
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>	
Phone:	3022813600
Email:	portfolio.ops@interdigital.com
Correspondent Name:	PATENT DOCKETING
Address Line 1:	200 BELLEVUE PARKWAY
Address Line 2:	SUITE 300
Address Line 4:	WILMINGTON, DELAWARE 19809
NAME OF SUBMITTER:	DAMIAN HAMME
SIGNATURE:	/Damian Hamme, Reg. No.71,729/
DATE SIGNED:	05/07/2021
Total Attachments: 7	
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT, effective as of September 11, 2020, is made by and between **InterDigital CE Patent Holdings, SAS**, a French corporation with a registered address at 3 rue du Colonel Moll, 75017 Paris, France (hereinafter "Assignor"), and **InterDigital Madison Patent Holdings, SAS**, a French corporation 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,

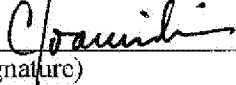
the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor, if this Assignment and sale had not been made.

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

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

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	<u></u>	<u>2 November 2020</u>
	(Signature)	(Date)
	<u>Christos Ioannidi</u>	<u>Vice President</u>
	(Print Name)	(Print Title)

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

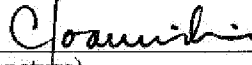
By	<u></u>	<u>2 November 2020</u>
	(Signature)	(Date)
	<u>Christos Ioannidi</u>	<u>Vice President</u>
	(Print Name)	(Print Title)

EXHIBIT A

Country	Application No.	Filing Date	Patent No.
EP	18708272.2	2018-Feb-14	
US	62/459368	2017-Feb-15	
US	16/486,487	2019-May-15	
WO	PCT/US18/018258	2018-Feb-14	
CN	201780087473.1	2017-Feb-27	
EP	17897494.5	2017-Feb-27	
JP	2019-545993	2017-Feb-27	
MX	MX/A/19/010136	2017-Feb-27	
US	16/489,205	2017-Feb-27	
WO	PCT/CN2017/074972	2017-Feb-27	
EP	16306580.8	2016-Nov-30	
EP	17809253.2	2017-Nov-30	
US	16/465,566	2017-Nov-30	
WO	PCT/EP17/080929	2017-Nov-30	
CN	201780078996.X	2017-Dec-14	
EP	16306736.6	2016-Dec-20	
EP	17821544.8	2017-Dec-14	
JP	2019-531307	2017-Dec-14	
KR	10-2019-7016477	2017-Dec-14	
US	16/471494	2017-Dec-14	
WO	PCT/EP17/082865	2017-Dec-14	

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

Country	Application No.	Filing Date	Patent No.
CN	201780074790.X	2017-Oct-26	
EP	16306441.3	2016-Nov-03	
EP	17791067.6	2017-Oct-26	
JP	2019-522738	2017-Oct-26	
KR	10-2019-7015437	2017-Oct-26	
US	16/347439	2017-Oct-26	
WO	PCT/EP17/077401	2017-Oct-26	
EP	16306579.0	2016-Nov-30	
EP	17808056.0	2017-Nov-28	
US	16/464419	2017-Nov-28	
WO	PCT/EP17/080626	2017-Nov-28	
CN	201810194552.9	2018-Mar-09	
DE	18155835.4	2018-Feb-08	602018001929.4
EP	17305256.4	2017-Mar-09	
EP	18155835.4	2018-Feb-08	3373586
FR	18155835.4	2018-Feb-08	3373586
GB	18155835.4	2018-Feb-08	3373586
JP	2018-039950	2018-Mar-06	
KR	10-2018-0026312	2018-Mar-06	
US	15/916169	2018-Mar-08	10572984
CN	201711133573.1	2017-Nov-15	
EP	16306497.5	2016-Nov-16	

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Country	Application No.	Filing Date	Patent No.
EP	17201304.7	2017-Nov-13	
JP	2017-219754	2017-Nov-15	
KR	10-2017-0144693	2017-Nov-01	
US	15/800221	2017-Nov-01	10747307
BR	BR1020170284344	2017-Dec-28	
CN	201711498930.4	2017-Dec-29	
EP	16306841.4	2016-Dec-29	
EP	17207472.6	2017-Dec-14	
US	15/856166	2017-Dec-28	
EP	17829741.2	2017-Dec-01	
US	62/436096	2016-Dec-19	
US	62/520205	2017-Jun-15	
US	16/467115	2017-Dec-01	
WO	PCT/US17/064134	2017-Dec-01	
CN	201810183939.4	2018-Mar-06	
EP	17305239.0	2017-Mar-07	
EP	18159630.5	2018-Mar-02	
JP	2018-039399	2018-Mar-06	
KR	10-2018-0025776	2018-Mar-05	
US	15/911107	2018-Mar-03	10560794
US	16/730,679	2018-Mar-03	
CN	201880006190.4	2018-Jan-09	

Country	Application No.	Filing Date	Patent No.
EP	17305020.4	2017-Jan-09	
EP	18700275.3	2018-Jan-09	
JP	2019-535334	2018-Jan-09	
KR	10-2019-7023133	2018-Jan-09	
US	16/476,585	2018-Jan-09	
WO	PCT/EP18/050474	2018-Jan-09	
EP	17305262.2	2017-Mar-10	
EP	18707337.4	2018-Feb-22	
US	16/492,595	2018-Feb-22	
WO	PCT/EP18/054358	2018-Feb-22	
CN	201880045483.3	2018-Jun-01	
EP	17305712.6	2017-Jun-12	
EP	18730298.9	2018-Jun-01	
JP	2020-518129	2018-Jun-01	
RU	2020100224	2018-Jun-01	
US	16/620,567	2018-Jun-01	
WO	PCT/EP18/064510	2018-Jun-01	
CN	201880057341.9	2018-Jul-11	
EP	18158688.4	2018-Feb-26	
EP	18740986.7	2018-Jul-11	
US	62/530993	2017-Jul-11	
US	16/629165	2018-Jul-11	

Country	Application No.	Filing Date	Patent No.
WO	PCT/US18/041537	2018-Jul-11	
DE	18184380.6	2018-Jul-19	
EP	17306118.5	2017-Aug-31	
EP	18184380.6	2018-Jul-19	
FR	18184380.6	2018-Jul-19	
GB	18184380.6	2018-Jul-19	
US	16/117327	2018-Aug-30	
CN	201880063972.1	2018-Aug-13	
EP	18762697.3	2018-Aug-13	
US	62/545208	2017-Aug-14	
US	16/638,024	2018-Aug-13	
WO	PCT/US18/46507	2018-Aug-13	
EP	17306087.2	2017-Aug-22	
EP	18189968.3	2018-Aug-21	
US	16/108314	2018-Aug-22	