

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KANGYING CAI	11/15/2020
JULIEN RICARD	09/02/2020
JOAN LLACH	09/03/2020
RECEIVING PARTY DATA	
Name:	INTERDIGITAL VC HOLDINGS, INC.
Street Address:	200 BELLEVUE PARKWAY
Internal Address:	SUITE 300
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19809
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17046630
CORRESPONDENCE DATA	
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<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>	
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Address Line 1:	1800 JFK BOULEVARD
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ATTORNEY DOCKET NUMBER:	ICVW_2018P00077WOUS
NAME OF SUBMITTER:	CASSANDRA KATZ
SIGNATURE:	/Cassandra Katz/
DATE SIGNED:	10/17/2023
Total Attachments: 6	
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PATENT ASSIGNMENT

WHEREAS, I/We,

- | | |
|---|--|
| <p>1. Kangying CAI
Cesson-Sevigne
France</p> <p>3. Joan LLACH
Cesson-Sevigne
France</p> | <p>2. Julien RICARD
Cesson-Sevigne
France</p> |
|---|--|

(hereinafter "Assignor(s)"), are sole/joint inventor(s) of certain inventions or improvements set forth in one or more patent applications listed in the attached Exhibit A (hereinafter "Applications"); and

WHEREAS, **Interdigital VC Holdings, Inc**, a **Delaware** corporation having a place of business at **200 Bellevue Parkway, Suite 300 DE Wilmington 19809 United States** (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the Applications; the inventions, discoveries and improvements disclosed or claimed therein ("Inventions"); and any and all patents, certificates of invention, utility models and other forms of protection which may be granted thereon or as a result thereof in any and all countries ("Patents").

NOW, THEREFORE, effective **11 APRIL 2018** for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, I/we, the undersigned Assignor(s), hereby agree to sell, assign, transfer and convey, and by these presents do sell, assign, transfer and convey to Assignee, our entire right, title and interest in and to any and all of the following:

- i. the Applications, the Inventions and the Patents, for the United States, its possessions and territories and all foreign countries and territories;
- ii. the rights of priority created by the Applications and the Patents under any treaty relating thereto, including the rights to apply for Patents covering the Inventions in any and all countries;
- iii. any and all patent applications and Patents resulting from the Applications or covering the Inventions in any and all countries, including provisionals, non-provisionals, divisionals, continuations, continuations-in-part, renewals, substitutions, extensions, reissues and re-examinations thereof;
- iv. all past, present and future causes of action and enforcement rights, whether currently pending, filed or otherwise, in connection with the Applications, the Inventions, the Patents, or the patents and patent applications resulting therefrom, including without limitation, all rights to sue for any past, present or future infringements 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 the Applications or any patent application resulting therefrom;

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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(s), if this Assignment and sale had not been made.

AND for the aforesaid consideration Assignor(s) hereby covenant, agree and undertake to execute and deliver to Assignee, its successors, assigns, nominees, or legal representatives, whenever requested and without undue delay, all patent applications, assignments, oaths and any other papers which Assignee may deem necessary or desirable for securing to or maintaining for the Assignee the Applications, the Patents and the Inventions hereby assigned, and each of the undersigned Assignor(s) agrees to communicate to Assignee or to its nominee all known facts respecting the Applications, the Patents and the Inventions, to testify in any legal or administrative proceeding related thereto, and generally to cooperate with and do everything possible to aid Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for their own benefit proper patent protection for the Inventions in any and all countries, all without further compensation to the undersigned Assignor(s).

AND Assignor(s) hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to Assignee, as Assignee of the entire right, title and interest, any and all Patents for the Inventions that may be issued and granted on or as a result of the Applications, in accordance with the terms of this assignment.

AND Assignor(s) hereby authorize Assignee or Assignee's representative to insert the application number and/or filing date of the Applications if they are unknown at the time of execution of this Assignment.

AND Assignor(s) hereby covenant that Assignor(s) have full right to convey the entire interest herein assigned, and that Assignor(s) have not executed and will not execute any agreement in conflict herewith.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we/I hereby authorize Assignee or Assignee's representative to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we/I have hereunto set our hands and seals.

PATENT ASSIGNMENT
Docket No.: **2018P00077WO**

11/15/2020

Date

Kangying CAI

DocuSigned by:
Kangying Cai
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PATENT ASSIGNMENT
Docket No.: **2018P00077WO**

9/2/2020

Date

DocuSigned by:
Julien RICARD

Julien RICARD
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Docket No.: **2018P00077WO**

9/3/2020

Date

DocuSigned by:

Joan LLACH

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Joan LLACH

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Docket No.: **2018P00077WO****Exhibit A**

Country	Application No.	Filing Date	Title
EP	18305430.3	11 APRIL 2018	A METHOD AND APPARATUS FOR ENCODING/DECODING A POINT CLOUD REPRESENTING A 3D OBJECT
EP01	18306133.2	23 AUGUST 2018	A METHOD AND APPARATUS FOR ENCODING/DECODING A POINT CLOUD REPRESENTING A 3D OBJECT
WO	PCT/US19/025130	01 APRIL 2019	A METHOD AND APPARATUS FOR ENCODING/DECODING A POINT CLOUD REPRESENTING A 3D OBJECT