PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7401111

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PCMS HOLDINGS, INC.	09/26/2021

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: 9

Property Type	Number
Patent Number:	10990831
Patent Number:	11328474
Application Number:	16761166
Application Number:	16954116
Application Number:	16981234
Application Number:	17049917
Application Number:	17055875
Application Number:	17271402
Application Number:	17721001

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	CHRISTOS A. IOANNIDI
SIGNATURE:	/Christos A. Ioannidi, Reg. No. 54,195/

DATE SIGNED:	06/24/2022

Total Attachments: 6
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT, effective as of September 11, 2021, is made by and between **PCMS Holdings, Inc.**, a Delaware corporation having a place of business at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 (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.

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 _____ 26 SEPT. 2021
(Signature) (Date)

Christos Ioannidi Senior Patent Executive
(Print Name) (Print Title)

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

By _____ 26 SEPT. 2021
(Signature) (Date)

Christos Ioannidi Vice President
(Print Name) (Print Title)

EXHIBIT A

Country	Application No.	Filing Date	Patent No.	Title
US	62/614,149	2018-Jan-05		METHOD TO CREATE A VR EVENT BY EVALUATING THIRD PARTY INFORMATION AND RE-PROVIDING THE PROCESSED INFORMATION IN REALTIME
US	16/236,015	2018-Dec-28	10,990,831	METHOD TO CREATE A VR EVENT BY EVALUATING THIRD PARTY INFORMATION AND RE-PROVIDING THE PROCESSED INFORMATION IN REAL-TIME
US	62/599,525	2017-Dec-15		Method for using viewing paths in navigation of 360° videos
CN	201880088618.4	2018-Dec-12		A METHOD FOR USING VIEWING PATHS IN NAVIGATION OF 360 DEGREE VIDEOS
EP	18842863.5	2018-Dec-12		A METHOD FOR USING VIEWING PATHS IN NAVIGATION OF 360 DEGREE VIDEOS
US	16/954,116	2018-Dec-12		A METHOD FOR USING VIEWING PATHS IN NAVIGATION OF 360 DEGREE VIDEOS
WO	PCT/US18/065230	2018-Dec-12		A METHOD FOR USING VIEWING PATHS IN NAVIGATION OF 360 DEGREE VIDEOS
US	62/580,797	2017-Nov-02		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
CN	201880070900.X	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
EP	18799983.4	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
JP	2020-523764	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
KR	10-2020-7011945	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS

Country	Application No.	Filing Date	Patent No.	Title
US	16/761,166	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
WO	PCT/US18/057147	2018-Oct-23		METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS
US	62/663,915	2018-Apr-27		360 multi-view story telling
CN	201980039766.1	2019-Apr-17		360 DEGREE MULTI-VIEWPORT SYSTEM
EP	19721486.9	2019-Apr-17		360 multi-view story telling
US	17/049,917	2019-Apr-17		360 degree multi-viewport system
WO	PCT/US19/027846	2019-Apr-17		360 multi-view story telling
US	62/645,603	2018-Mar-20		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
CN	201980031106.9	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
EP	19720214.6	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
JP	2020-550126	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
KR	10-2020-7028390	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
US	16/981,234	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
WO	PCT/US19/022994	2019-Mar-19		System and Method for Optimizing Dynamic Point Clouds Based on Prioritized Transformations
US	62/645,618	2018-Mar-20		System and Method for Dynamically Adjusting Level of Details of Point Clouds
CN	201980031100.1	2019-Mar-12		System and Method for Dynamically Adjusting Level of Details of Point Clouds

Country	Application No.	Filing Date	Patent No.	Title
EP	19713932.2	2019-Mar-12		System and Method for Dynamically Adjusting Level of Details of Point Clouds
US	16/982,373	2019-Mar-12		System and Method for Dynamically Adjusting Level of Details of Point Clouds
WO	PCT/US19/21846	2019-Mar-12		System and Method for Dynamically Adjusting Level of Details of Point Clouds
US	62/673,025	2018-May-17		3D display directional backlight based on diffractive elements
CN	201980037148.3	2019-May-08		3D display directional backlight based on diffractive elements
EP	19725559.9	2019-May-08		3D display directional backlight based on diffractive elements
KR	10-2020-7033354	2019-May-08		3D display directional backlight based on diffractive elements
US	17/055,875	2019-May-08		3D display directional backlight based on diffractive elements
VN	1-2020-07181	2019-May-08		3D display directional backlight based on diffractive elements
WO	PCT/US19/031332	2019-May-08		3D display directional backlight based on diffractive elements
TW	108116175	2019-May-10		3D display directional backlight based on diffractive elements
US	62/724,492	2018-Aug-29		Optical method and system for light field displays based on mosaic periodic layer
CN	201980068043.4	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer
EP	19769276.7	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer

Country	Application No.	Filing Date	Patent No.	Title
KR	10-2021-7006336	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer
US	17/271,402	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer
VN	1-2021-01483	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer
WO	PCT/US19/047761	2019-Aug-22		Optical method and system for light field displays based on mosaic periodic layer