

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6976374

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	08/21/2018
RECEIVING PARTY DATA		
Name:	PCMS 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:	16611803
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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Correspondent Name:	INVENTION MINE LLC	
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Address Line 4:	NAPERVILLE, ILLINOIS 60563	
ATTORNEY DOCKET NUMBER:	2017P00288WOUS	
NAME OF SUBMITTER:	ROBERT J. IRVINE III	
SIGNATURE:	/Robert J. Irvine III/	
DATE SIGNED:	10/19/2021	
Total Attachments: 3		
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ASSIGNMENT

This ASSIGNMENT is entered into as of May 11, 2018 (the "Effective Date") by and between

TEKNOLOGIAN TUTKIMUSKESKUS VTT OY
Vuorimiehentie 3
VTT, Finland FI-02044,

an organization existing under the laws of Finland (hereinafter "**ASSIGNOR**") and

PCMS HOLDINGS, INC.,
200 Bellevue Parkway, Suite 300
Wilmington, Delaware 19809,

a Delaware corporation (hereinafter "**ASSIGNEE**").

WHEREAS **ASSIGNOR** is a party to a Master Research and Development Agreement (hereinafter "Master Agreement") entered into with InterDigital Communications, Inc. ("**IDC**"), a Delaware corporation.

WHEREAS, pursuant to the Master Agreement, **ASSIGNOR** has agreed to irrevocably transfer and assign to **ASSIGNEE**, as designee of **IDC**, all of its right, title and interest, on a worldwide basis, in, to and under certain patents and patent applications, including the application for Letters Patent to the United States, identified as Application No. PCT/US2018/032374, filed May 11, 2018, entitled:

"SYSTEM AND METHOD FOR DISTRIBUTING AND RENDERING CONTENT AS
SPHERICAL VIDEO AND 3D ASSET COMBINATION",

hereinafter the "**APPLICATION**."

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, the **ASSIGNOR**, to the extent it possess any rights, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over to the **ASSIGNEE** its entire right, title and interest in and to the inventions or improvements in the above-referenced **APPLICATION**, and any and all continuations, divisions and renewals of and substitutes for the **APPLICATION**, and in, to

and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of the Letters Patent, including our full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of the **APPLICATION** or any continuations, divisions, or renewals of or substitutes for the **APPLICATION**, and the worldwide right to claim priority to the above-referenced **APPLICATION**. **ASSIGNOR** further assigns the right and authorizes the **ASSIGNEE** to file applications for Letters Patent in all countries, the same to be held and enjoyed by the **ASSIGNEE**, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which the Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by **ASSIGNOR** had this assignment, sale and transfer not been made.

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the **APPLICATION** and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of the Letters Patent, including the worldwide right to claim priority.

ASSIGNOR hereby covenants that the inventions or improvements in the above-referenced **APPLICATION** originate from work performed by employees of **ASSIGNOR** and that **ASSIGNOR** acquired all rights in the inventions or improvements by virtue of the Act on the Right in Employee Inventions 29.12.1967/656.

ASSIGNOR further covenants and agrees that it will, each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to the inventions or improvements, the **APPLICATION** and the Letters Patent to the **ASSIGNEE**, its successors, assigns, nominees, or legal representatives, and **ASSIGNOR** agrees to communicate to the **ASSIGNEE** or to its nominee all known facts respecting the inventions or improvements, the **APPLICATION** and the Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid the **ASSIGNEE**, its successors, assigns, nominees and legal representatives to

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obtain and enforce for its or their own benefit proper patent protection for the inventions or improvements in any and all countries. Nothing in this covenant should be construed as obviating any obligation of compensation defined in other agreements.

ASSIGNOR hereby authorizes and requests 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 the **ASSIGNEE**, as **ASSIGNEE** of the entire right, title and interest, any and all Letters Patent for the inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

This Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, **ASSIGNOR** and **ASSIGNEE** hereby authorize their attorneys 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. **ASSIGNOR** and **ASSIGNEE** hereby authorize their attorneys to insert above the application number and filing date of the above-described patent application when known.

PCMS HOLDINGS, INC.

TEKNOLOGIAN TUTKIMUSKESKUS VTT OY

By: C Ioannidi

By: Pasi Nikkonen

Name: Christos A. Ioannidi

Name: Pasi Nikkonen

Title: SENIOR PATENT EXECUTIVE

Title: PATENT ATTORNEY

Date: 27 Aug 2018

Date: 21 Aug 2018