## 505548270 06/27/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5595067

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CAROLINE BAILLARD	12/19/2017
PIERRICK JOUET	12/19/2017
MATTHIEU FRADET	12/19/2017

### **RECEIVING PARTY DATA**

Name:	THOMSON LICENSING
Street Address:	1 RUE JEANNE D'ARC
City:	ISSY LE MOULINEAUX
State/Country:	FRANCE
Postal Code:	92130

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16470198

### **CORRESPONDENCE DATA**

Fax Number:

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.

**Phone:** (609) 436-9850

Email: uspto@interdigital.com

Correspondent Name: PATRICIA A. VERLANGIERI

Address Line 1:INTERDIGITAL CE HOLDINGS INC.Address Line 2:4 RESEARCH WAY, 3RD FLOORAddress Line 4:PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER:	2016P00150WOUS	
NAME OF SUBMITTER:	PATRICIA A. VERLANGIERI	
SIGNATURE: /Patricia A. Verlangieri, Reg.No. 42201/		
DATE SIGNED:	06/27/2019	

### **Total Attachments: 3**

source=PF160186USPCTDeclaration#page1.tif source=PF160186USPCTDeclaration#page2.tif source=PF160186USPCTDeclaration#page3.tif

PATENT 505548270 REEL: 049614 FRAME: 0614

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

# METHOD AND DEVICE FOR A PLACEMENT OF A VIRTUAL OBJECT OF AN AUGMENTED OR MIXED REALITY APPLICATION IN A REAL-WORLD 3D ENVIRONMENT

the specification of which was filed on 29 November 2017 as Application Serial No. PCT/EP2017/080652 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by ma.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declars that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

#### assignment and agreement in an application for letters patent

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, including India and the United States of America, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

i agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

i hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

i covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	Cosson Serigne Da	te <u>/2//2/2017</u>
Inventor Name	Nathieu ARADET (Type or Print)	(Signature in Full – No Initials)
Post Office Address	975, avenue des Champs Blancs, ZAC des Cha FRANCE	mps Blancs, CS 176 16, 35 576 Cesson Sévigné
1 <sup>st</sup> Witness	LUU Tao (Type or Print)	(Signature in Full – No Initials)
2 <sup>nd</sup> Witness	MOHAMMAD ROUHAPI (Type or Print)	(Signature in Full - No Initials)

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

### METHOD AND DEVICE FOR A PLACEMENT OF A VIRTUAL OBJECT OF AN AUGMENTED OR MIXED REALITY APPLICATION IN A REAL-WORLD 3D ENVIRONMENT

the specification of which was filed on 29 November 2017 as Application Serial No. PCT/EP2017/080852 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by me.

12 - O - -

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment

Lacknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-inpart applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001,

### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, including India and the United States of America, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

10/10/01

Signed at	( <u>Q.5.1.274</u> , <u>38.4.91~2</u> Date	) 121131/2013
Inventor Name	BAILLAS Caroline (Type or Print)	(Signature in Full – No Initials)
Post Office Address	975, avenue des Champs Blancs, ZAC des Cham FRANCE	nps Blancs, CS 176 16, 35 576 Cesson Sévigné
1 <sup>st</sup> Witness	Vin Cant Allenume (Type or Print)	(Signature in Full – No Initials)
2 <sup>nd</sup> Witness	Philippe ROBERT	PA (Signature In Full – No Initials)

**PATENT** REEL: 049614 FRAME: 0616 As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

# METHOD AND DEVICE FOR A PLACEMENT OF A VIRTUAL OBJECT OF AN AUGMENTED OR MIXED REALITY APPLICATION IN A REAL-WORLD 3D ENVIRONMENT

the specification of which was filed on 29 November 2017 as Application Serial No. PCT/EP2017/080852 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, including India and the United States of America, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

Lagree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at OSSON Service Date 1112 (1011)

Inventor Name Cype or Print)

OUE Package Signature in Full – No Initials)

Post Office 975, avenue des Champs Blancs, ZAC des Champs Blancs, CS 176 16, 35 576 Cesson Sévigné Address FRANCE

(Type or Print)

(Type or Print)

(Type or Print)

(Type or Print)

(Type or Pfirit) / \*(Signature in Pull ~ No initials)

2<sup>nd</sup> Witness 17 Clause Vin Cend (Signature in Full – No Initials)

PATENT REEL: 049614 FRAME: 0617

**RECORDED: 06/27/2019** 

1st Witness