

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5778485

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMSON LICENSING	07/30/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERDIGITAL CE PATENT HOLDINGS
<b>Street Address:</b>	3 RUE DU COLONEL MOLL
<b>City:</b>	PARIS
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	75017
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16464419
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	6093758214
<b>Email:</b>	brian.pritchett@interdigital.com
<b>Correspondent Name:</b>	BRIAN DORINI, INTERDIGITAL
<b>Address Line 1:</b>	4 RESEARCH WAY, 3RD FLOOR
<b>Address Line 4:</b>	PRINCETON, NEW JERSEY 08540
<b>ATTORNEY DOCKET NUMBER:</b>	PF160152 US PCT
<b>NAME OF SUBMITTER:</b>	RONALD KOLCZYNSKI
<b>SIGNATURE:</b>	/Ronald Kolczynski/
<b>DATE SIGNED:</b>	10/21/2019
<b>Total Attachments: 4</b>	
source=ASSIGNMENT_TL_TO_ID_CE#page1.tif	
source=ASSIGNMENT_TL_TO_ID_CE#page2.tif	
source=ASSIGNMENT_TL_TO_ID_CE#page3.tif	
source=ASSIGNMENT_TL_TO_ID_CE#page4.tif	

**EXHIBIT A**

**Recordable Confirmatory Patent Assignment**

THIS PATENT ASSIGNMENT (“Assignment”), effective as of July 30, 2018, is made by and between THOMSON LICENSING SAS, a *société par actions simplifiée* organized under the laws of the French Republic (hereinafter “**ASSIGNOR**”); and INTERDIGITAL CE PATENT HOLDINGS, SAS, a *société par actions simplifiée* organized under the laws of the French Republic (hereinafter “**ASSIGNEE**”).

WHEREAS:

A **ASSIGNOR** is the sole owner of the patents and/or patent applications listed in the attached Appendix A (hereinafter “the **PATENTS**”); and

B **ASSIGNEE** is desirous of acquiring all of **ASSIGNOR**’s right, title and interest in and to the **PATENTS**.

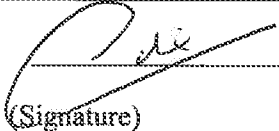
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, **ASSIGNOR** has sold, assigned and transferred, and does hereby confirm the sale, assignment and transfer to **ASSIGNEE** of all of **ASSIGNOR**’s right, title and interest in and to (i) the **PATENTS**; (ii) all patents and patent applications linked to the **PATENTS** through one or more claims of priority pursuant to 35 U.S.C. §§ 120 or 119(e) (the equivalent laws or regulation of any other patent authority) or that are, or are entitled to be, foreign counterparts, reissues, divisionals, renewals, revivals, reissues, reexaminations, extensions, continuations or continuations-in-part with respect to any other patent or patent applications in such set of the **PATENTS**, and (iii) the right to sue for and recover damages for any past, present or future infringement of the **PATENTS**, 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, to the end of the term or terms thereof as fully and entirely as the same would have been held and enjoyed by **ASSIGNOR**, if this assignment and sale had not been made.

IN WITNESS WHEREOF, **ASSIGNOR** has caused this Recordable Patent Assignment to be signed by its duly appointed officer having full authority in the circumstances; and **ASSIGNEE** has caused this Recordable Patent Assignment to be signed by its duly appointed officer having full authority in the circumstances.

(Signatures on the next page.)

SIGNED for and on behalf of

THOMSON LICENSING SAS

By   
(Signature)

on 07/23/18  
(Date)

Adrien Cadieux, Duly authorized  
(Print Name and Title)

State of New York

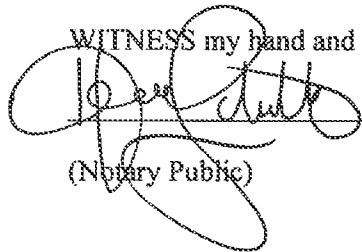
County of New York

On this 23<sup>rd</sup> day of July, 2018 before me,  
Adrien Cadieux, personally appeared

\_\_\_\_\_, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the instrument and acknowledged to me that he/she executed the same in his/her authorized capacity and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of New York that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

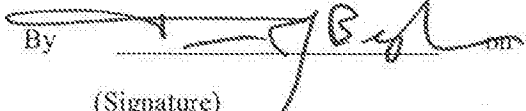
  
(Notary Public)

HANNAH SCHULTZ  
Notary Public, State of New York  
No. 01906363663  
Qualified in New York County  
Commission Expires August 21, 2021

*[Signature Page to the NewCo Patent Agreement Recordable Confirmatory Patent Assignment]*

SIGNED for and on behalf of

**INTERDIGITAL CE PATENT HOLDINGS, SAS**

By  \_\_\_\_\_  
(Signature) (Date)

**Timothy J. Berghuis, President**  
(Print Name and Title)

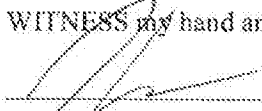
State of Delaware

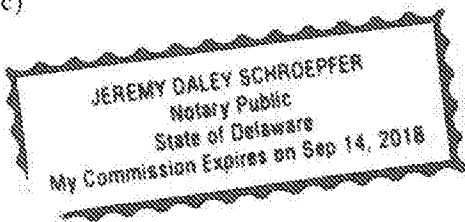
County of New Castle

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018 before me,  
Jeremy Daley Schroepfer, personally appeared  
Timothy J. Berghuis, who proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the instrument and acknowledged to me  
that he/she executed the same in his/her authorized capacity and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted, executed the  
instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Delaware that the  
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

  
(Notary Public)



*[Signature Page to the NewCo Patent Agreement Recordable Confirmatory Patent  
Assignment]*

<u>Case Reference</u>	<u>Acquired New Co Patent vs. Organic</u>	<u>Country</u>	<u>Filing Date</u>	<u>Serial Number</u>	<u>Issue Date</u>	<u>Patent Number</u>
PF160136-BR-NP	organic	BR	11/1/2017	BR1020170236 269		
PF160136-CA-NP	organic	CA	10/24/2017	2983550		
PF160136-CN-NP	organic	CN	11/6/2017	201711077975. 4		
PF160136-EP-EPA[2]	organic	EP	10/30/2017	17199197.9		
PF160136-IN-NP	organic	IN	10/27/2017	201744038159		
PF160136-JP-NP	organic	JP	11/2/2017	2017-212587		
PF160136-KR-NP	organic	KR	11/1/2017	10-2017- 0144691		
PF160136-MX-NP	organic	MX	11/3/2017	MX/a/17/01414 1		
PF160136-MY-NP	organic	MY	10/20/2017	PI2017703974		
PF160136-RU-NP	organic	RU	11/1/2017	2017138066		
PF160136-US-NP	organic	US	10/31/2017	15/798502		
PF160137-CN-NP	organic	CN	10/12/2017	201710951055. 4		
PF160137-EP-EPA	organic	EP	10/13/2016	16306350.6		
PF160137-JP-NP	organic	JP	10/11/2017	2017-197654		
PF160137-KR-NP	organic	KR	10/12/2017	10-2017- 0132338		
<del>PF160137-US-NP</del>	organic	<del>US</del>	<del>10/12/2017</del>	<del>15/730843</del>		
PF160138-BR-NP	organic	BR	11/28/2017	BR1020170255 026		
PF160138-CN-NP	organic	CN	11/28/2017	201711220705. 4		
PF160138-EP-EPA[2]	organic	EP	11/15/2017	17201760.0		
PF160138-US-NP	organic	US	11/29/2017	15/825556		
PF160145-EP-EPA	organic	EP	9/22/2017	17192568.8		
PF160145-US-NP	organic	US	9/30/2017	15/721889		
PF160152-WO-PCT	organic	WO	11/28/2017	PCT/EP17/080 626		
PF160153-WO-PCT	organic	WO	12/11/2017	PCT/EP17/082 141		
PF160158-WO-PCT	organic	WO	11/16/2017	PCT/EP17/079 434		
PF160164-WO-PCT	organic	WO	9/21/2017	PCT/EP17/073 851		
PF160167-BR-NP	organic	BR	12/1/2017	BR1020170259 056		
PF160167-CA-NP	organic	CA	11/30/2017	2987087		
PF160167-CN-NP	organic	CN	12/1/2017	201711247711. 9		
PF160167-EP-EPA[2]	organic	EP	11/23/2017	17203418.3		
PF160167-IN-NP	organic	IN	11/23/2017	201744042044		
PF160167-JP-NP	organic	JP	11/29/2017	2017-228563		
PF160167-KR-NP	organic	KR	11/30/2017	10-2017- 0163341		
PF160167-MX-NP	organic	MX	11/29/2017	MX/a/17/01534 5		
PF160167-RU-NP	organic	RU	11/29/2017	2017141588		
<del>PF160167-US-NP</del>	organic	<del>US</del>	<del>12/1/2017</del>	<del>15/829171</del>		
PF160169-CN-NP	organic	CN	12/14/2017	201711345890. X		