## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PAUL MARINIER	06/05/2012
AFSHIN HAGHIGHAT	06/05/2012
GUODONG ZHANG	06/11/2012
DIANA PANI	06/05/2012
J. PATRICK TOOHER	06/05/2012
MARIAN RUDOLF	06/05/2012
GHYSLAIN PELLETIER	06/05/2012
CHRISTOPHER CAVE	06/05/2012
YAN LI	05/30/2012
ALLAN Y TSAI	05/22/2012
PASCAL M ADJAKPLE	06/11/2012

## **RECEIVING PARTY DATA**

Name:	INTERDIGITAL PATENT HOLDINGS, INC	
Street Address:	3411 SILVERSIDE ROAD, SUITE 105	
Internal Address:	CONCORD PLAZA, HAGLEY BUILDING	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19810	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13345047

#### **CORRESPONDENCE DATA**

Fax Number: (215)558-5676 Phone: 215-558-5740

Email: docketing@condoroccia.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent PATENT

REEL: 028413 FRAME: 0231

via US Mail.

Correspondent Name: Condo Roccia LLP

Address Line 1: One Liberty Place 1650 Market Street

Address Line 2: Suite 2200

Address Line 4: Philadephia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:

ILTE\_10884US02

NAME OF SUBMITTER:

Diana Kang

Total Attachments: 13

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PATENT REEL: 028413 FRAME: 0232 DOCKET NO.: ILTE\_10884US02 APPLICATION NO.: 13/345,047

### ASSIGNMENT

WHEREAS, we Paul Marinier, residing at 1805 Stravinski, Brossard, Quebec J4X 2J7 Canada; Afshin Haghighat, residing at 407 Heron-Vert, Ile-Bizard, Quebec H9C 3A7 Canada; Guodong Zhang, residing at 14 Walnut Dr., Syosset, NY 11791 US; Diana Pani, residing at 730 Lusignan, Apt. 4, Montreal, Quebec H3C 1Y9 Canada; J. Patrick Tooher, residing at 1200 Pauline-Julien, unit 35, Montreal, Quebec H2J 0A2 Canada; Marian Rudolf, residing at 525 Lucien L'Allier, Apt #204, Montreal, Quebec H3C 4L3 Canada; Ghyslain Pelletier, residing at 2055 rue De Valmont, Chomedey, Laval, Quebec H7M 3J3 Canada; Christopher Cave, residing at 258 Baffin, Dollard-des-Ormeaux, Quebec H9A 3J2 Canada; Yan Li, residing at 1053 Tarragon Court, Morganville, NJ 07751 US; Allan Y. Tsai, residing at 10 Jolie Court, Boonton, NJ 07005 US; and Pascal M. Adjakple, residing at 67 Red Brook Road, Great Neck, NY 11024 US, hereinafter referred to as the ASSIGNORS, are joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 13/345,047, filed January 6, 2012, entitled COMMUNICATING CHANNEL STATE INFORMATION (CSI) OF MULTIPLE TRANSMISSION POINTS; and

WHEREAS, InterDigital Patent Holdings, Inc., hereinafter referred to as the ASSIGNEE, of 3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, DE 19810, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said ASSIGNEE, our entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said 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 said Letters Patent, including our full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application. We further assign to and authorize said ASSIGNEE, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

DOCKET NO.: ILTE\_10884US02 APPLICATION NO.: 13/345,047

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we 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 said inventions or improvements, said application and said Letters Patent to said ASSIGNEE, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said ASSIGNEE or to its nominee all known facts respecting said inventions or improvements, said application and said 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 said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we 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 said ASSIGNEE, as ASSIGNEE of the entire right, title and interest, any and all Letters Patent for said 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.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our 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.

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

Signed at Marinier

STATEMENT OF WITNESS: I, Book Gazada Marinier

Whose full address is: MTL, QC Canada Marinier

Was personally present and did see Park Marinier execute this Assignment on the Say of Marinier execute this Assignment execute

Signed at (City and Country)

STATEMENT OF WITNESS: I, Board (a 2 2 And Name of Witness Wost, 10th Ficor whose full address is:

WIL, QC Canada H3A 3G4

Address of Witness

was personally present and did see African Assignor is personally known to me to be the person described herein.

Signature of Witness

Signed at City and Country)

STATEMENT OF WITNESS: I,

Whose full address is:

Was personally present and did see Address of Witness

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1000 5,2012 Date	J. Patrick Tooher	
Signed at(City and Cou	Mentical OC Canad	
STATEMENT OF WITNESS:	t, <u>By No. Q22AAA</u> Name of Witness 1000 Sherbrooke St. West, 10th Fice	
whose full address is:	MTL, QC Canada H3A 3G4	
was personally present and did so day of Analysis described herein.	Address of Witness  Signature of Witness  Address of Witness  Address of Witness  E Row Ch. Tooker execute this Assignment on the Second to me to be the personal part of Witness	

DOCKET NO.: ILTE\_10884US02 APPLICATION NO.: 13/345,047

Name of Witness 1000 Sherbrooke St. West, 10th Floor MTL, QC. Canada H3A 3G4

Page 8 of 13

Signed at Montree Canada (City and Country)

STATEMENT OF WITNESS: I, Name of Witness

1000 Sherbrooke St. West, 10th Floor whose full address is:

With QC Canada H3A 3G4

Address of Witness

was personally present and did see Gladar Relleft execute this Assignment on the day of Analysis and such Assignor is personally known to me to be the person described herein.

Signed at Christopher Cave

Signed at City and Country)

STATEMENT OF WITNESS: I, Some Gazana Name of Witness

whose full address is: MTL, QC Canada H3A 3Gq

Address of Witness

was personally present and did see Christopher Cave execute this Assignment on the Sday of Carada H3A 3Gq

Address of Witness

Was personally present and did see Christopher Cave execute this Assignment on the Sday of Carada H3A 3Gq

Address of Witness

Was personally present and did see Christopher Cave execute this Assignment on the Sday of Carada H3A 3Gq

Address of Witness

Signed at Morganic (City and Country)

STATEMENT OF WITNESS: I, FANG
Name of Witness

whose full address is: /OS3 Tarragon Ct
Address of Witness

was personally present and did see AN LL execute this Assignment on the 3/St
day of Nany , 2012 and such Assignor is personally known to me to be the person described herein.

Signature of Witness

Signed at Melville My USA (City and Country)

STATEMENT OF WITNESS: I, Mame of Witness

whose full address is:

Address of Witness

was personally present and did see Man Saignor is personally known to me to be the person described herein.

DOCKET NO.: ILTE_10884US02 APPLICATION NO.: 13/345,047
Date Pascal M. Adjakple (L.S.)
Signed at MeWile, M USA (City and Country)
STATEMENT OF WITNESS: I, Mame of Witness
2 Huntington Quadrangle, 4th FI/South Wing whose full address is:  Melville, NY 11747 USA  Address of Witness
was personally present and did see Pascal M Adjat pleasecute this Assignment on the day of, 2012 and such Assignor is personally known to me to be the person described herein.