

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT8288184

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GHYSLAIN PELLETIER	12/06/2011
PAUL MARINIER	12/06/2011
DIANA PANI	12/06/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERDIGITAL PATENT HOLDINGS, INC.
<b>Street Address:</b>	200 BELLEVUE PARKWAY
<b>Internal Address:</b>	SUITE 300
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19809
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17734721
<b>Application Number:</b>	18514680
<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>	13022813600
<b>Email:</b>	docketing@interdigital.com
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<b>Address Line 4:</b>	WILMINGTON, DELAWARE 19809
<b>ATTORNEY DOCKET NUMBER:</b>	2010P00739US05
<b>NAME OF SUBMITTER:</b>	MAJID ALBASSAM
<b>SIGNATURE:</b>	/Majid Albassam/
<b>DATE SIGNED:</b>	11/21/2023
<b>Total Attachments: 4</b>	

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**WORLDWIDE ASSIGNMENT**

**WHEREAS:**

1. Ghyslain PELLETIER  
2055 rue De Valmont  
Chomedey  
Laval, Québec H7M 3J3  
Canada
2. Paul MARINIER  
1805 Stravinski  
Brossard, Québec J4X 2J7  
Canada
3. Diana PANI  
730 Lusignan, Apt. 4  
Montreal, Québec H3C 1Y9  
Canada

(hereinafter "Assignors") have invented a certain invention currently entitled:

**METHODS, APPARATUS AND SYSTEMS FOR PERFORMING MULTI-RADIO ACCESS  
TECHNOLOGY CARRIER AGGREGATION**

for which an application for a patent of the United States on 23 November 2011, under U.S. Patent Application Serial No. 13/304,008 has been filed, and

WHEREAS, InterDigital Patent Holdings, Inc. having a place of business at 3411 Silverside Road, Hagley Building, Suite 105, Wilmington, Delaware, United States of America, 19810 (hereinafter "Assignee"), a corporation of Delaware is desirous of acquiring the entire right, title and interest in and to the aforementioned patent application (hereinafter "Application"), and the invention(s) disclosed therein and in and to all embodiments and improvements of the invention(s), conceived, made or discovered by Assignors (hereinafter "Invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patents") thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in deliberation of good and valuable consideration acknowledged by Assignors to have been received in full from Assignee:

1. Assignors hereby sell, assign, transfer and convey to Assignee full and exclusive right, title and interest (a) in and to Application and Invention; (b) in and to all rights to apply for patents covering the Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all Patents granted, covering the Invention, in any and all countries and groups of countries, including each and every application filed and each and every Patent granted on any application which is a division, substitution, continuation, or continuation-in-part of the Application; (d) in and to each and every reissue or extension of any of the Patents; and (e) including our full right to sue for and collect damages for past violations of Assignor's rights in and to the Application and Invention including but not limited to provisional rights having arisen from any publication of the Application or any continuations, continuations-in-part, divisions.
2. Assignors hereby covenant and agree to cooperate with Assignee to enable Assignee to enjoy to the fullest extent the right, title and interest to the Invention herein conveyed in any and all countries and groups of countries. Such cooperation by Assignors, in general, shall include doing everything possible to aid Assignee to obtain and enforce, for benefit of Assignee, proper patent protection for the Invention in any and all countries; and in particular, such cooperation by Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by Assignee (a) for perfecting in Assignee the right, title and interest herein conveyed; (b) for prosecuting the Application, or related applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering embodiments of the Invention; (d) for filing and prosecuting applications for reissuance of any of the Patents; (e) for

interference or other priority proceedings involving the Invention; and (f) for legal proceedings involving the Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions.

3. Assignors 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 is to issue patents on applications as aforesaid, to issue to Assignee, as Assignee of the entire right, title and interest, any and all Patents that may be issued and granted on or as a result of the Application in accordance with the terms of this agreement.
4. Assignors hereby warrant and represent that Assignors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
5. The term and covenants of this agreement shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignors and Assignors' respective heirs, legal representatives and assigns.
6. Assignors hereby authorize Assignee, its attorneys or agents, to insert into this Assignment the correct Application Number and/or Filing Date, if none is indicated on the date of Assignors' execution of this agreement.
7. This agreement should be deemed effective as of 23 November 2011.

IN WITNESS WHEREOF, Assignors have executed and delivered this instrument to Assignee on the date(s) indicated below.

Dec 6<sup>th</sup> 2011  
Date

Ghyslaine Pelletier  
Ghyslaine PELLETIER

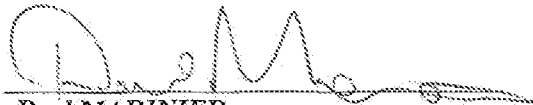
Signed at Montreal, QC, Canada  
(City) (Country)

STATEMENT OF WITNESS: I, Bonina Carzara,  
Name of Witness  
1000 Sherbrooke St. West, 10th Floor  
whose full address is: MTL, QC Canada H3A 3G4,  
Address of Witness

was personally present and did see Ghyslaine PELLETIER execute this Assignment on the 6 day of December, 2011, and such Assignor is personally known to me to be the person described herein.

Bonina Carzara  
Signature of Witness

Dec. 6, 2011  
Date

  
Paul MARINIER

Signed at Montreal, QC Canada  
(City) (Country)

STATEMENT OF WITNESS: I, Bonina LAZZARA  
1000 Sherbrooke St. West 10th Floor  
MTL, QC Canada H3A 3G4

whose full address is: \_\_\_\_\_  
Address of Witness

was personally present and did see Paul MARINIER execute this Assignment on the 6 day of December, 2011 and such Assignor is personally known to me to be the person described herein.

  
Signature of Witness

Date

Dec 6, 2011

Diana PANI

Signed at

Montreal, QC Canada  
(City) (Country)

STATEMENT OF WITNESS: I,

Bonina LAZZARA

Name of Witness

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

whose full address is:

Address of Witness

was personally present and did see Diana PANI execute this Assignment on the 6 day of December, 2011, and such Assignor is personally known to me to be the person described herein.

Bonina Lazzara  
Signature of Witness