

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Benoit PELLETIER</td> <td>01/09/2012</td> </tr> <tr> <td>Hong O. ZHANG</td> <td>02/01/2012</td> </tr> <tr> <td>Diana PANI</td> <td>01/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Benoit PELLETIER	01/09/2012	Hong O. ZHANG	02/01/2012	Diana PANI	01/09/2012
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Benoit PELLETIER	01/09/2012								
Hong O. ZHANG	02/01/2012								
Diana PANI	01/09/2012								
RECEIVING PARTY DATA									
Name:	InterDigital Patent Holdings, Inc.								
Street Address:	3411 Silverside Road, Hagley Building, Suite 105								
City:	Wilmington								
State/Country:	DELAWARE								
Postal Code:	19810								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13340924</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13340924				
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Application Number:	13340924								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	10888US02								
NAME OF SUBMITTER:	Robert J. Irvine III								
Total Attachments: 4 source=10888US02_Executed_Assignment#page1.tif source=10888US02_Executed_Assignment#page2.tif source=10888US02_Executed_Assignment#page3.tif source=10888US02_Executed_Assignment#page4.tif									

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**WORLDWIDE ASSIGNMENT**

WHEREAS:

- |                                                                                                 |                                                                                      |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p>1. Benoit PELLETIER<br/>11-13th Street<br/>Roxboro, Québec H8Y 1L3<br/>Canada</p>            | <p>3. Diana PANI<br/>730 Lusignan, Apt. 4<br/>Montreal, Québec H3C1Y9<br/>Canada</p> |
| <p>2. Hong O. ZHANG<br/>5 Nutley Drive<br/>Manalapan, NJ 07726<br/>United States of America</p> |                                                                                      |

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

**SELECTION OF TRANSMISSION PARAMETERS FOR TRANSMIT DIVERSITY TERMINALS**

for which an application for a patent of the United States on 30 December 2011, under U.S. Patent Application Serial No. 13/340,924 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 30 December 2011.

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

January 9, 2012  
Date


  
Benoit PELLETIER

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

STATEMENT OF WITNESS: I, Bonnie LAZZARA  
Name of Witness

whose full address is: 1000 Sherbrooke St. West, 10th Floor  
MTL, QC Canada H3A 3G2  
Address of Witness

was personally present and did see Benoit PELLETIER execute this Assignment on the 9 day of January, 2012, and such Assignor is personally known to me to be the person described herein.

  
Signature of Witness

2/1/2012  
Date

[Signature]  
Hong O. ZHANG

Signed at Matawan, NJ  
(City) (Country)

STATEMENT OF WITNESS: I, Yan Li  
Name of Witness

whose full address is: 1053 Tarragon Ct, Morganville, NJ 07751  
Address of Witness

was personally present and did see Hong O. ZHANG execute this Assignment on the 1st day of Feb., 2012 and such Assignor is personally known to me to be the person described herein.

[Signature]  
Signature of Witness

January 9, 2012  
Date

*[Signature]*  
Diana PANI

Signed at Montreal (City) QC Canada (Country)

STATEMENT OF WITNESS: I, Bonina LAZZARINI,  
Name of Witness

whose full address is: 1000 Sherbrooke St. West, 10th Floor  
MTL, QC Canada H3A 5G4  
Address of Witness

was personally present and did see Diana PANI execute this Assignment on the 9 day of January, 2012, and such Assignor is personally known to me to be the person described herein.

*[Signature]*  
Signature of Witness