

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shahrokh Nayeab Nazar</td> <td>02/17/2011</td> </tr> <tr> <td>Kyle Jung-Lin Pan</td> <td>02/15/2011</td> </tr> <tr> <td>Robert L. Olesen</td> <td>02/15/2011</td> </tr> <tr> <td>Allan Y. Tsai</td> <td>02/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Shahrokh Nayeab Nazar	02/17/2011	Kyle Jung-Lin Pan	02/15/2011	Robert L. Olesen	02/15/2011	Allan Y. Tsai	02/15/2011		
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RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>InterDigital Patent Holdings, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>3411 Silverside Road, Concord Plaza</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 105, Hagley Building</td> </tr> <tr> <td>City:</td> <td>Wilmington</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19810</td> </tr> </table>		Name:	InterDigital Patent Holdings, Inc.	Street Address:	3411 Silverside Road, Concord Plaza	Internal Address:	Suite 105, Hagley Building	City:	Wilmington	State/Country:	DELAWARE	Postal Code:	19810
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CORRESPONDENCE DATA													
<p>Fax Number: (215)568-6499</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-568-6400</p> <p>Email: SWolinsky@vklaw.com</p> <p>Correspondent Name: Volpe and Koenig, P.C.</p> <p>Address Line 1: 30 South 17th Street</p> <p>Address Line 2: United Plaza, Suite 1600</p> <p>Address Line 4: Philadelphia, PENNSYLVANIA 19103</p>													
ATTORNEY DOCKET NUMBER:	IDC-10352US02-SW/KLL												
NAME OF SUBMITTER:	Scott Wolinsky												

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PATENT
REEL: 025989 FRAME: 0410

Total Attachments: 6

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ASSIGNMENT

Shahrokh Nayeb Nazar, residing at 50 Du Mont-Saint-Bruno Avenue, Sainte-Julie, Montreal, Quebec J2E 2Z9, Canada, a citizen of Canada; Kyle Jung-Lin Pan, residing at 43 Avalon Circle, Smithtown, New Jersey 11787, the United States of America, a citizen of the United States of America; Robert L. Olesen, residing at 3 Country Club Drive, Huntington, New York 11743, the United States of America, a citizen of the United States of America; and Allan Y. Tsai, residing at 10 Jolie Court, Boonton, New Jersey 07005, the United States of America, a citizen of the United States of America, (hereafter jointly and severally referred to as the undersigned), are listed as the inventors of

METHOD AND APPARATUS FOR CHANNEL RESOURCE MAPPING IN CARRIER AGGREGATION

for which the undersigned have filed a provisional application for United States Letters Patent, U.S. Patent Application No. 12/986,407, filed January 7, 2011.

InterDigital Patent Holdings, Inc., a Delaware corporation, having a place of business at 3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, Delaware 19810, USA, (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the provisional application for United States Letters Patent entitled as above, and all non-provisional applications claiming the benefit thereof, and divisions and continuations thereof, and in all letters patent, including all reissues and reexaminations thereof, throughout the world, including the right to claim priority under the Paris Convention or other treaty.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 17 day of February,
2011 at Montreal, QC
(Place)

Witness:

Bonine Carzara
Bonine Carzara

Shahrokh Nayeb Nazar (L.S.)
Shahrokh Nayeb Nazar

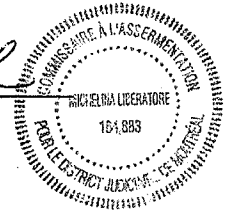
~~State of~~ Province of Quebec
~~County of~~ municipality^{ss.} of Montreal

On this 17 day of February, 2011 before me personally appeared
Shahrokh Nayeb Nazar, to me known to be the person described herein and who
executed the foregoing instrument, and acknowledged that he/she executed the same
knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

G. Pluttre

Notary Public



My Commission Expires:

13 Sept 2013

EXECUTED under seal on this 15 day of February,
2011 at Melville, NY.
(Place)

Witness:

Bridgett Jetter

Kyle Jung-Lin Pan (L.S.)
Kyle Jung-Lin Pan

State of New York
County of Suffolk ss.

On this 15 day of February, 2011 before me personally appeared Kyle Jung-Lin Pan, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Maureen Borrero

Notary Public

My Commission Expires:

MAUREEN BORRERO
Notary Public - State of New York
No. 01BO6145147
Qualified in Suffolk County
Commission Expires May 1, 2014

EXECUTED under seal on this 15 day of February,
2011 at Melville, NY.
(Place)

Witness:

Bridget Letren

Robert L. Olesen (L.S.)
Robert L. Olesen

State of New York
County of Suffolk ss.

On this 15 day of February, 2011 before me personally appeared Robert L. Olesen, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Maureen Borrero

Notary Public

My Commission Expires:

MAUREEN BORRERO
Notary Public - State of New York
No. 01B06145147
Qualified in Suffolk County
Commission Expires May 1, 2014

Atty. Docket No. IDC-10352US02

EXECUTED under seal on this 15 day of February,
2011 at Melville, NY.
(Place)

Witness:

Bridget K. Lee

Allan Y. Tsai (L.S.)
Allan Y. Tsai

State of New York
County of Suffolk ss.

On this 15 day of February 2011 before me personally appeared Allan Y. Tsai, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Maureen Borrero

Notary Public

My Commission Expires:

MAUREEN BORRERO
Notary Public - State of New York
No. 01B06145147
Qualified in Suffolk County
Commission Expires May 1, 2014