### PATENT ASSIGNMENT

**Electonic Version v1.1**  
**Stylesheet Version v1.1**

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<th>CORRECTIVE ASSIGNMENT</th>
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<td>NATURE OF CONVEYANCE:</td>
<td>Corrective Assignment to correct the Doc date of Assignor Marian Rudolf to read 09/29/2010 previously recorded on Reel 025181 Frame 0642. Assignor(s) hereby confirms the Assignment of Assignor's Interest.</td>
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#### CONVEYING PARTY DATA

<table>
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<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Guodong Zhang</td>
<td>10/05/2010</td>
</tr>
<tr>
<td>Afshin Haghighat</td>
<td>09/28/2010</td>
</tr>
<tr>
<td>Erdem Bala</td>
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<tr>
<td>Marian Rudolf</td>
<td>09/29/2010</td>
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<table>
<thead>
<tr>
<th>Name:</th>
<th>InterDigital Patent Holdings, Inc.</th>
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</thead>
<tbody>
<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>
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**PROPERTY NUMBERS Total: 1**

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<tr>
<th>Property Type</th>
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<tbody>
<tr>
<td>Application Number</td>
<td>12854495</td>
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#### CORRESPONDENCE DATA

Fax Number: (215)568-6499  
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.  
Phone: 215-568-6400  
Email: AVenezia@vklaw.com  
Correspondent Name: Volpe and Koenig, P.C.  
Address Line 1: 30 South 17th Street  
Address Line 2: United Plaza, Suite 1600  
Address Line 4: Philadelphia, PENNSYLVANIA 19103
<table>
<thead>
<tr>
<th>ATTORNEY DOCKET NUMBER:</th>
<th>IDC-10171US02-ALV/KLL</th>
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<tr>
<td>NAME OF SUBMITTER:</td>
<td>Anthony L. Venezia</td>
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**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1  

**10/22/2010**  
**501328275**

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<th>SUBMISSION TYPE:</th>
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**NATURE OF CONVEYANCE:**  
ASSIGNMENT

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<td>Marian Rudoff</td>
<td>09/28/2010</td>
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<tr>
<td>Stephen E. Terry</td>
<td>10/07/2010</td>
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### RECEIVING PARTY DATA

- **Name:** InterDigital Patent Holdings, Inc.
- **Street Address:** 3411 Silverside Road
- **Internal Address:** Concord Plaza, Suite 105, Hagley Building
- **City:** Wilmington
- **State/Country:** DELAWARE
- **Postal Code:** 19810

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<td>NAME OF SUBMITTER:</td>
<td>Anthony L. Venezia</td>
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ASSIGNMENT

Guodong Zhang, residing at 14 Walnut Drive, Syosset, New York 11791, the United States of America, a citizen of China; Afshin Haghighat, residing at 407 Heron-Vert, Ile-Bizard, Quebec H9C 3A7, Canada, a citizen of Canada; Erdem Bala, residing at 17 Hallock Street, Floor #2, Farmingdale, New York 11735, the United States of America, a citizen of Turkey; David S. Bass, residing at 161 Schenck Avenue, Great Neck, New York 11021, the United States of America, a citizen of the United States of America; Paul Marinier, residing at 1805 Stravinski, Brossard, Quebec J4X 2J7, Canada, a citizen of Canada; Marian Rudolf, residing at 525 Lucien L'Allier, Apartment #204, Montreal, Quebec H3C 4L3, Canada, a citizen of Germany; and Stephen E. Terry, residing at 15 Summit Avenue, Northport, New York 11768, the United States of America, a citizen of the United States of America, (hereafter jointly and severally referred to as the undersigned), are the inventors of

METHOD AND APPARATUS FOR CONTENTION-BASED UPLINK DATA TRANSMISSION


InterDigital Patent Holdings, Inc., a Delaware corporation, having a principal 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 application for United States
Letters Patent entitled as above, and all 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 5 day of October, 2010 at Melville, NY (Place)

Witness:

Baldwin Letterman

Guodong Zhang (L.S.)

State of New York

County of Suffolk ss.

On this 5 day of October, 2010 before me personally appeared Guodong Zhang, 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. 01BC6145147
Qualified in Suffolk County
Commission Expires May 1, 2014

1391379-1
3 of 9
Atty. Docket No. IDC-10171US02

EXECUTED under seal on this 28th day of September, 2010 at Montreal, QC.

(Place)

Witness:

Bonnie Takaza

Afshin Haghighat (U.S.)

Province: Quebec

State of: Quebec

Municipality: Montreal

County of: Montreal ss.

On this 28th day of September, 2010 before me personally appeared Afshin Haghighat, 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.

My Commission Expires:

13 Sept 2013

Notary Public

1391379-1
Atty. Docket No. IDC-10171US02

EXECUTED under seal on this 5 day of October, 2010 at Melville, NY

(Place)

Witness:

[Signature]

Erdem Bala

(L.S.)

State of New York

County of Suffolk ss.

On this 5 day of October, 2010 before me personally appeared Erdem Bala, 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.

[Signature]

Notary Public

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

My Commission Expires:
EXECUTED under seal on this 5 day of October, 2010 at Melville, NY (Place)

Witness:

Bridgette Setren

David S. Bass (L.S.)

State of New York
County of Suffolk ss.

On this 5 day of October, 2010 before me personally appeared David S. Bass, 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.

Notary Public

MAUREEN BORRERO
Notary Public - State of New York
No. 01BO6145147
Qualified in Suffolk County
Commission Expires May 1, 2014
Atty. Docket No. IDC-10171US02

EXECUTED under seal on this 28th day of September 2010 at Madison, WI.

(Place)

Witness:

Bunnie Lejano

Paul Marinier

Province of Quebec

County of Municipality of Madison

On this 28th day of September 2010 before me personally appeared Paul Marinier, 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.

D. Lush
Notary Public

My Commission Expires:

13 Sept 2013
EXECUTED under seal on this 29th day of September 2010 at Montreal, Qc. (Place)

Witness:

Bruno Laprise

Marian Rudolf (L.S.)

Province of Quebec
Municipality of Montreal

On this 29th day of September 2010 before me personally appeared Marian Rudolf, 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.

My Commission Expires:

13 Sept 2013

Notary Public
Atty. Docket No. IDC-10171US02

EXECUTED under seal on this 7 day of October, 2010 at Melville, NY.

Witness:

[Signature]

State of New York
County of Suffolk

On this 7 day of October, 2010 before me personally appeared Stephen E. Terry, 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.

[Signature]

My Commission Expires:

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

[Signature]

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