

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2621382

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>DOLORES F HOWRY</td> <td>10/19/2013</td> </tr> <tr> <td>YOGENDRA C SHAH</td> <td>11/06/2013</td> </tr> <tr> <td>ALEC BRUSILOVSKY</td> <td>11/06/2013</td> </tr> <tr> <td>JOSEPH GREDONE</td> <td>11/06/2013</td> </tr> </tbody> </table>		Name	Execution Date	DOLORES F HOWRY	10/19/2013	YOGENDRA C SHAH	11/06/2013	ALEC BRUSILOVSKY	11/06/2013	JOSEPH GREDONE	11/06/2013
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JOSEPH GREDONE	11/06/2013										
RECEIVING PARTY DATA											
Name:	INTERDIGITAL PATENT HOLDINGS, INC.										
Street Address:	200 BELLEVUE PARKWAY										
Internal Address:	SUITE 300										
City:	WILMINGTON										
State/Country:	DELAWARE										
Postal Code:	19809										
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>14031496</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14031496						
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Application Number:	14031496										
CORRESPONDENCE DATA											
Fax Number:	(215)568-3439										
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Correspondent Name:	WOODCOCK WASHBURN LLP										
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ATTORNEY DOCKET NUMBER:	ISEC-0678/11557US02										
NAME OF SUBMITTER:	MARK E. BRAUN										

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Signature:	/Mark E. Braun/
Date:	11/20/2013
Total Attachments: 6 source=ISEC0678_executed_assignments#page1.tif source=ISEC0678_executed_assignments#page2.tif source=ISEC0678_executed_assignments#page3.tif source=ISEC0678_executed_assignments#page4.tif source=ISEC0678_executed_assignments#page5.tif source=ISEC0678_executed_assignments#page6.tif	

ASSIGNMENT

WHEREAS, we Dolores F. Howry, residing at 1305 Summerhill Drive, Malvern, Pennsylvania 19355; Yogendra C. Shah, residing at 10 Regency Court, Exton, Pennsylvania 19341; Alec Brusilovsky, residing at 1122 Oak Hollow Drive, Downingtown, Pennsylvania 19335; and, Joseph Gredone, residing at 159 Billingsley Drive, Chalfont, Pennsylvania 18914, 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. 14/031,496, filed September 19, 2013, entitled L; and

WHEREAS, InterDigital Patent Holdings, Inc., hereinafter referred to as the ASSIGNEE, of 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809, 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.: ISEC-0678/11557US02

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.

DOCKET NO.: ISEC-0678/11557US02

October 19, 2013 Dolores F. Howry (L.S.)  
Date Dolores F. Howry

STATEMENT OF WITNESS

SIGNED at Dolores F. Howry Malvern, PA  
(City and State or Country)

This 19 day of October, 2013.

I, J. David Howry whose full  
address is 1305 Summerhill Drive  
Malvern, PA 19355

was personally present and did see Dolores F. Howry execute this assignment on the  
19 day of October, 2013, and such assignor is personally known to me to be the  
person described herein.

J. David Howry  
Signature of Witness

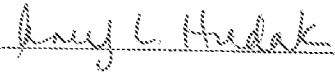
DOCKET NO.: ISEC-0678/11557US02

06 Nov 2013  
Date  (L.S.)  
Yogendra C. Shah

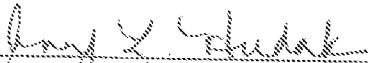
STATEMENT OF WITNESS

SIGNED at 781 Third Avenue, King of Prussia, PA 19406 USA  
(City and State or Country)

This 6<sup>th</sup> day of November, 2013.

I,  whose full  
address is 781 Third Avenue, King of Prussia, PA 19406 USA

was personally present and did see Yogendra C. Shah execute this assignment on the  
6<sup>th</sup> day of November, 2013, and such assignor is personally known to me to be the  
person described herein.

  
Signature of Witness

DOCKET NO.: ISEC-0678/11557US02

06 Nov 2013  
Date \_\_\_\_\_ Alec Brusilovsky (L.S.)

STATEMENT OF WITNESS

SIGNED at 781 Third Avenue, King of Prussia, PA 19406 USA  
(City and State or Country)

This 6th day of November, 2013.

I, Amy L. Hudak whose full  
address is 781 Third Avenue, King of Prussia, PA 19406 USA

was personally present and did see Alec Brusilovsky execute this assignment on the  
6th day of November, 2013, and such assignor is personally known to me to be the  
person described herein.

Amy L. Hudak  
Signature of Witness

DOCKET NO.: ISEC-0678/11557US02

06 Nov 2013  
Date

Joseph Gredone (L.S.)  
Joseph Gredone

STATEMENT OF WITNESS

SIGNED at 781 Third Avenue, King of Prussia, PA 19406 USA  
(City and State or Country)

This 06th day of November, 2013.

I, Amey L. Medak whose full  
address is 781 Third Avenue, King of Prussia, PA 19406 USA

was personally present and did see Joseph Gredone execute this assignment on the  
06th day of November, 2013, and such assignor is personally known to me to be the  
person described herein.

Amey L. Medak  
Signature of Witness