## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignor's name from Kyle Jing-Lin Pan to read Kyle Jung-Lin Pan previously recorded on Reel 023154 Frame 0319.  Assignor(s) hereby confirms the Assignment of Assignor's Interest.

#### **CONVEYING PARTY DATA**

Name	Execution Date
Kyle Jung-Lin Pan	08/14/2009
Donald M. Grieco	08/13/2009
Robert L. Olesen	08/19/2009

#### **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

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12496129

#### **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: AHuq@volpe-koenig.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

ATTORNEY DOCKET NUMBER:	IPH-2-2117.01.US AAH/LAD
NAME OF SUBMITTER:	Abhik A. Huq

500954980 REEL: 023193 FRAME: 0946

12496129

#### Total Attachments: 9

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# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 08/27/2009 500947431

**NEW ASSIGNMENT** SUBMISSION TYPE:

**ASSIGNMENT** NATURE OF CONVEYANCE:

## **CONVEYING PARTY DATA**

Name	Execution Date
Kyle Jing-Lin Pan	08/14/2009
Donald M. Grieco	08/13/2009
Robert L. Olesen	08/19/2009
Robert L. Olesen	

## **RECEIVING PARTY DATA**

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
1 000000	

## PROPERTY NUMBERS Total: 1

Property Type	Number
	12496129

### **CORRESPONDENCE DATA**

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215-568-6400 Phone:

DCalder@volpe-koenig.com Email: Volpe and Koenig, P.C. Correspondent Name: 30 South 17th Street Address Line 1:

United Plaza, Suite 1600 Address Line 2:

Philadelphia, PENNSYLVANIA 19103 Address Line 4:

IPH-2-2117.01.US-DNC/KLL ATTORNEY DOCKET NUMBER: Daniel N. Calder NAME OF SUBMITTER:

: VOLPE AND KOENIG, P.C. COMPANY: 30 SOUTH 17TH STREET

## Total Attachments: 5

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### ASSIGNMENT

Kyle Jung-Lin Pan, residing at 43 Avalon Circle, Smithtown, New York 11787, the United States of America, a citizen of the United States of America; Donald M. Grieco, residing at 18 Shore Road, Manhasset, New York 11030, the United States of America, a citizen of the United States of America; and 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, (hereafter jointly and severally referred to as the undersigned), are the inventors of

# METHOD AND APPARATUS FOR MEASURING AND REPORTING A RANK AND A PRECODING MATRIX FOR MULTIPLE-INPUT MULTIPLE-OUTPUT COMMUNICATION

for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 12/496,129, filed July 1, 2009.

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 1 of 5

Atty. Docket No. IPH-2-2117.01.US

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.

2 of 5

Atty. Docket No. IPH-2-2117.01.US

EXECUTED under seal on this	,
2009 at Melville, M	
(Place)	

Witness:

State of New York
County of Suffolk

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:

MIGALY LOPEZ NOTARY PUBLIC - STATE OF NEW YORK No. 01L06183181 Qualified in Suffolk County Commission Expires March 10, 2012

Atty. Docket No. IPH-2-2117.01.US
EXECUTED under seal on this 13th day of August,
2009 at MANHASSET, N.Y. (Place)
Witness:
Cothern S Cah Donald M. Grieco (L.S.)
State of New York ss. County of NASSA4
On this 1377 day of August, 2009 before me personally appeared
Donald M. Grieco, 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
My Commission Expires:  STEVEN CHUDYK  Notary Public, State of New York  No. 4759194  Qualified in Suffolk County  Commission Expires (1) 3.4.

Atty. Docket No. IPH-2-2117.01.US EXECUTED under seal on this 10 day of 1 Witness: (L.S.) Robert L. Olesen SS. County of 2009 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.

My Commission Expires:

RECORDED: 09/04/2009

MAUREEN BORRERO
Notary Public - State of New York
No. 01B06145147
Qualified in Suffolk County
Commission Expires May 1, 2010

Notary Public

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