

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
John L. Tomici	03/21/2011
Prabhakar R. Chitrapu	03/25/2011
John Cartmell	03/21/2011
Rocco Di Girolamo	03/29/2011
Jean-Louis Gauvreau	03/29/2011
Aravind Kamarajugadda	04/01/2011
Chunxuan Ye	03/22/2011
Alexander Reznik	04/04/2011
Kenneth F. Lynch	03/21/2011
Kushanava Laha	04/25/2011
Reeteshkumar Varshney	04/01/2011
Nicholas J. Podias	03/21/2011
Arty Chandra	03/21/2011
Alpaslan Y. Demir	03/21/2011
Martino Freda	03/29/2011
Scott C. Hergenhan	03/21/2011
Dale N. Seed	03/21/2011
Michael F. Starsinic	03/21/2011
Athmane Touag	03/29/2011
Onkarnath Upadhyay	04/01/2011
Paul Russell	03/25/2011

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

CH \$40.00 12960128

501652680

PATENT
REEL: 026878 FRAME: 0863

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12960128

CORRESPONDENCE DATA

Fax Number: (215)558-5676
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 215-558-5740
Email: mdevine@condoroccia.com
Correspondent Name: CONDO ROCCIA LLP
Address Line 1: 1650 Market Street
Address Line 2: One Liberty Place, Suite 2200
Address Line 4: Philadelphia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	IFUT_10348US02
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NAME OF SUBMITTER:	Vincent J. Roccia
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Total Attachments: 23

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ASSIGNMENT

WHEREAS, we **John L. Tomici**, residing **1530 Wells Avenue, P.O. Box 1317, Southold, New York 11971**; **Prabhakar R. Chitrapu**, residing at **135 Brochant Drive, Blue Bell, Pennsylvania 19422**; **John Cartmell**, residing at **32 Lecter Avenue, Lynbrook, New York 11563**; **Rocco Di Girolamo**, residing at **632 de Fribourg Street, Laval, Quebec, Canada H7K 3Y3**; **Jean-Louis Gauvreau**, residing at **115 Paradis, La Prairie, Quebec, Canada J5R 6G7**; **Aravind Kamarajugadda**, residing at **9085 Judicial Drive – Apt. 2227, San Diego, California 92122**; **Chunxuan Ye**, residing at **2 Stirling Court, Wayne, Pennsylvania 19087**; **Alexander Reznik**, residing at **1212 River Road, Titusville, New Jersey 08560**, **Kenneth F. Lynch**, residing at **330 Prussian Lane, Wayne, Pennsylvania 19087**, **Kushanava Laha**, residing at **H-1104 Maple Heights, Sushantlok-1 Block-C, Gurgaon, Haryana 12202**; **Reeteshkumar Varshney**, residing at **N-247 Ground Floor, Mayfield Gardens, Sector-51, Gurgaon, Haryana 122001**; **Nicholas J. Podias**, residing at **164 87th Street, Brooklyn, New York 11209**; **Arty Chandra**, residing at **31 Jeffrey Place, Manhasset Hills, New York 11040**; **Alpaslan Y. Demir**, residing at **1714 Coral Road, East Meadow, New York 11554**; **Martino Freda**, residing at **7131 du Cabernet, Laval, Quebec, Canada H7A 0A8**; **Scott C. Hergenhan**, residing at **322 Constitution Drive, Collegeville, Pennsylvania 19426**; **Dale N. Seed**, residing at **229 N. 36th Street, Allentown, Pennsylvania 18104**; **Michael F. Starsinic**, residing at **92 Laurel Circle, Newtown, Pennsylvania 18940**; **Athmane Touag**, residing at **752 Olivar-Asselin, Chomedey, Laval, Quebec, Canada H7V 1V3**; **Onkarnath Upadhyay**, residing at **EL-502, Deendyal Nagar, Maharajpur, Gwalior (M.P.) 474020**; and **Paul Russell**, residing at **8 Michael Way, Pennington, New Jersey**, 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. **12/960,128**, filed **December 3, 2010**, entitled **BANDWIDTH MANAGEMENT FOR A CONVERGED GATEWAY IN A HYBRID NETWORK**; and

WHEREAS, **InterDigital Patent Holdings, Inc.**, hereinafter referred to as the **ASSIGNEE**, of **3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, DE 19810**, 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.

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.

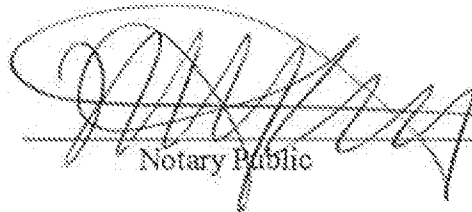
IN WITNESS WHEREOF, we have hereunto set our hands and seals.

3-21-11
Date

John L. Tomici (L.S.)
John L. Tomici

STATE OF New York :
COUNTY OF Suffolk : SS

On this 21 day of March, year of 2011, before me personally came the above named John L. Tomici to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public

MIGALY LOPEZ
NOTARY PUBLIC - STATE OF NEW YORK
No. 01LO6183181
Qualified in Suffolk County
Commission Expires March 10, 2012

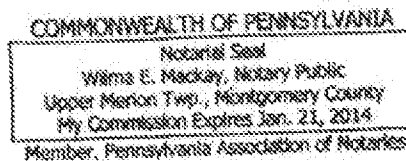
DOCKET NO.: IFUT-0060/10348US02

Date 25-MAR-11 Prabhakar R. Chitrapu (L.S.)

COMMONWEALTH
STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 25th day of March, year of 2011, before me personally came the above named Prabhakar R. Chitrapu to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Wilma E. Mackay
Notary Public



DOCKET NO.: IFUT-0060/10348US02

3-21-11
Date

[Signature] (L.S.)
John Cartmell

STATE OF New York :
COUNTY OF Suffolk : SS

On this 21 day of March year of 2011, before me personally came the above named John Cartmell to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public

MIGALY LOPEZ
NOTARY PUBLIC - STATE OF NEW YORK
No. 01LO6183181
Qualified in Suffolk County
Commission Expires March 10, 2012

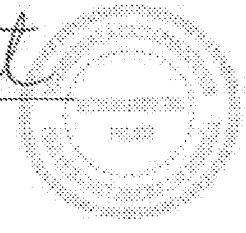
March 29, 2011
Date

Rocco Di Girolamo (L.S.)
Rocco Di Girolamo

Province
STATE OF Quebec:
Montreal : SS
COUNTY OF Montreal:

On this 29 day of March, year of 2011, before me personally came the
above named Rocco Di Girolamo to me personally known and known to me to
be the same individual who executed the foregoing assignment, and who acknowledged to me
that execution of the same was of that person's own free will for the use and purposes therein set
forth.

A. L. L. L. L.
Notary Public



DOCKET NO.: IFUT-0060/10348US02

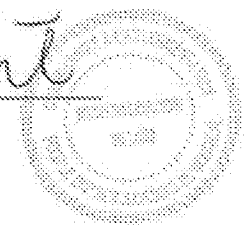
March 29, 2011
Date

 (L.S.)
Jean-Louis Gauvreau

Province
STATE OF Quebec :
Montreal : SS
COUNTY OF Montreal :

On this 28 day of March, year of 2011, before me personally came the above named Jean-Louis Gauvreau to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public



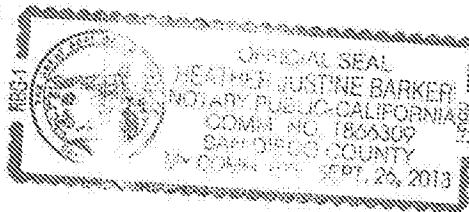
April 1, 2011
Date

K. Aravind (L.S.)
Aravind Kamarajugadda

STATE OF California:
COUNTY OF San Diego SS

On this 1st day of April, year of 2011, before me personally came the above named Aravind Kamarajugadda to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Heather Justine Barker
Notary Public



DOCKET NO.: IFUT-0060/10348US02

22 March 2011
Date

Chunxuan Ye (L.S.)
Chunxuan Ye

Commonwealth
STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 22nd day of March, year of 2011, before me personally came the above named Chunxuan Ye to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Amy L. Serhienko
Notary Public
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Amy L. Serhienko, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires June 12, 2011
Member, Pennsylvania Association of Notaries

4-APR-11
Date

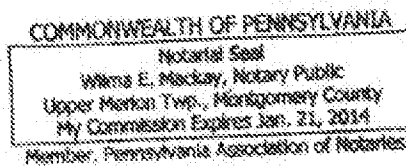
Alexander Reznik (L.S.)
Alexander Reznik

COMMONWEALTH

STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 4th day of April, year of 2011, before me personally came the above named Alexander Reznik to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

William E. Mackay
Notary Public



DOCKET NO.: IFUT-0060/10348US02

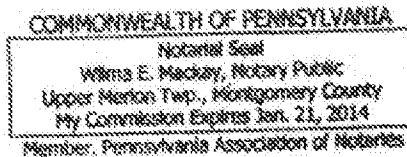
21-MAR-11
Date

Kenneth F. Lynch (L.S.)
Kenneth F. Lynch

COMMONWEALTH
STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 21st day of March, year of 2011, before me personally came the above named Kenneth F. Lynch to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

William E. Mackay
Notary Public



DOCKET NO.: IFUT-0060/10348US02

25th April 2011 Kushanavala (L.S.)
Date Kushanava Laha

STATEMENT OF WITNESS

SIGNED at GURGAON INDIA
(City) (Country)

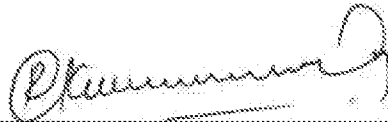
This 25th day of APRIL, 2011.

I, R. SATHYAVAGEESWARAN whose full
residence address is H27 GF, RESIDENCY GREENS, GREENWARD CITY, GURGAON-122003
INDIA
was personally present and did see KUSHANAVA LAHA execute the above assignment on the
25th day of APRIL, 2011, and such assignor is personally known to me to be the
person described in such document.

[Signature]
Signature of Witness

DOCKET NO.: IFUT-0060/10348US02

01.04.2011
Date

 (L.S.)
Reeteshkumar Varshney

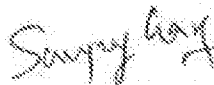
STATEMENT OF WITNESS

SIGNED at GURGAON INDIA
(City) (Country)

This 01 day of APRIL, 2011.

I, SANJAY GARG whose full
residence address is C-15/6, GF, Cosmos Floor, Ardee City,

Sec-52, GURGAON
was personally present and did see _____ execute the above assignment on the
1st day of APRIL, 2011, and such assignor is personally known to me to be the
person described in such document.


Signature of Witness

DOCKET NO.: IFUT-0060/10348US02

3-21-11
Date

Nicholas J. Podias (L.S.)
Nicholas J. Podias

STATE OF New York:
COUNTY OF Suffolk: SS

On this 21 day of March, year of 2011 before me personally came the above named Nicholas J. Podias to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public

MIGALY LOPEZ
NOTARY PUBLIC - STATE OF NEW YORK
No. 01LO6183181
Qualified in Suffolk County
Commission Expires March 10, 2012

DOCKET NO.: IFUT-0060/10348US02

3-21-11
Date

[Signature] (L.S.)
Arty Chandra

STATE OF New York :
COUNTY OF Suffolk : SS

On this 21 day of March, year of 2011, before me personally came the above named Arty Chandra to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public

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

DOCKET NO.: IFUT-0060/10348US02

3-21-11
Date

Alpaslan Y. Demir (L.S.)
Alpaslan Y. Demir

STATE OF New York :
COUNTY OF Suffolk : SS

On this 21 day of March year of 2011, before me personally came the above named Alpaslan Y. Demir to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public

MIGALY LOPEZ
NOTARY PUBLIC - STATE OF NEW YORK
No. 01LO6183181
Qualified in Suffolk County
Commission Expires March 10, 2012

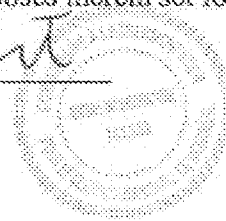
DOCKET NO.: IFUT-0060/10348US02

March 29, 2011 Martino Freda (L.S.)
Date Martino Freda

Province
STATE OF Quebec :
Montreal : SS
COUNTY OF Montreal :

On this 29 day of March, year of 2011, before me personally came the above named
Martino Freda to me personally known and known to me to be the same
individual who executed the foregoing assignment, and who acknowledged to me that execution
of the same was of that person's own free will for the use and purposes therein set forth.

G. Schmitt
Notary Public



DOCKET NO.: IFUT-0060/10348US02

21-MAR-2011
Date

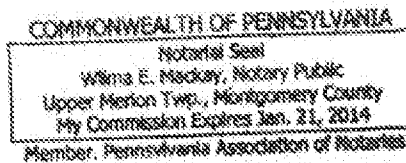
Scott C. Hergenhan (L.S.)
Scott C. Hergenhan

COMMONWEALTH

STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 21st day of March, year of 2011, before me personally came the above named Scott C. Hergenhan to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

William E. Mackay
Notary Public



DOCKET NO.: IFUT-0060/10348US02

21-MAR-2011
Date

Dale N. Seed (L.S.)
Dale N. Seed

COMMONWEALTH
STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 21st day of March, year of 2011, before me personally came the above named
Dale N. Seed to me personally known and known to me to be the same
individual who executed the foregoing assignment, and who acknowledged to me that execution
of the same was of that person's own free will for the use and purposes therein set forth.

Wilma E. Mackay
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Wilma E. Mackay, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires Jan. 21, 2014
Member, Pennsylvania Association of Notaries

DOCKET NO.: IFUT-0060/10348US02

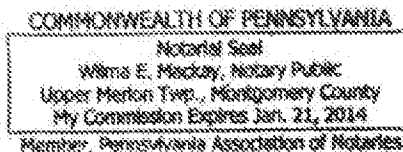
21-MAR-2011
Date

Michael F. Starsinic (L.S.)
Michael F. Starsinic

Commonwealth
STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 21st day of March, year of 2011, before me personally came the above named Michael F. Starsinic to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

William E. Mackay
Notary Public



DOCKET NO.: IFUT-0060/10348US02

March 29, 2011
Date

Athmane Tonag (L.S.)
Athmane Tonag

Province
STATE OF Quebec :
Municipality
COUNTY OF Mohel : SS

On this 29 day of March, year of 2011, before me personally came the above named
Athmane Tonag to me personally known and known to me to be the same
individual who executed the foregoing assignment, and who acknowledged to me that execution
of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public



DOCKET NO.: IFUT-0060/10348US02

Date 1st April 2011  (L.S.)
Onkarnath Upadhyay

STATEMENT OF WITNESS

SIGNED at Hyderabad India
(City) (Country)

This 1st day of April, 2011.

I, G.V. NAGASUTHA whose full
residence address is #301 Sri Sailaja Heights, Street #14
Himayat Nagar, Hyderabad-29, Andhra Pradesh, India
was personally present and did see Onkarnath Upadhyay execute the above assignment on the
1st day of April, 2011, and such assignor is personally known to me to be the
person described in such document.

G.V. Nagasutha
Signature of Witness

DOCKET NO.: IFUT-0060/10348US02

25-MAR-11
Date

Paul Russell (L.S.)

COMMONWEALTH

STATE OF Pennsylvania :
COUNTY OF Montgomery : SS

On this 25th day of March, year of 2011, before me personally came the above named Paul Russell to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

William E. Mackay
Notary Public

