

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Howard Huang</td> <td>04/08/2013</td> </tr> <tr> <td>Harpreet Singh Dhillon</td> <td>06/03/2013</td> </tr> <tr> <td>Harish Viswanathan</td> <td>05/06/2013</td> </tr> <tr> <td>Reinaldo Valenzuela</td> <td>04/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	Howard Huang	04/08/2013	Harpreet Singh Dhillon	06/03/2013	Harish Viswanathan	05/06/2013	Reinaldo Valenzuela	04/08/2013
Name	Execution Date										
Howard Huang	04/08/2013										
Harpreet Singh Dhillon	06/03/2013										
Harish Viswanathan	05/06/2013										
Reinaldo Valenzuela	04/08/2013										
RECEIVING PARTY DATA											
Name:	Alcatel-Lucent USA Inc.										
Street Address:	600-700 Mountain Avenue										
City:	Murray Hill										
State/Country:	NEW JERSEY										
Postal Code:	07974										
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>13833623</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13833623						
Property Type	Number										
Application Number:	13833623										
CORRESPONDENCE DATA											
Fax Number:	7036688200										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	703-668-8000										
Email:	dcmailroom@hdp.com										
Correspondent Name:	HARNESS, DICKEY & PIERCE, P.L.C.										
Address Line 1:	P.O. BOX 8910										
Address Line 4:	RESTON, VIRGINIA 20195										
ATTORNEY DOCKET NUMBER:	29250-006242/US										
NAME OF SUBMITTER:	Gary D. Yacura										
Signature:	/Gary D. Yacura/										

Date:

06/06/2013

Total Attachments: 9

source=2013_06_05_assignment#page1.tif

source=2013_06_05_assignment#page2.tif

source=2013_06_05_assignment#page3.tif

source=2013_06_05_assignment#page4.tif

source=2013_06_05_assignment#page5.tif

source=2013_06_05_assignment#page6.tif

source=2013_06_05_assignment#page7.tif

source=2013_06_05_assignment#page8.tif

source=2013_06_05_assignment#page9.tif

ASSIGNMENT AND AGREEMENT

For value received, we, **Howard Huang** of **New York** in County of **New York** and State of **New York**, **Harpreet Singh Dhillon** of **Austin** in County of **Travis** and State of **Texas**, **Harish Viswanathan** of **Murray Hill** in County of **Union** and State of **New Jersey**, **Reinaldo Valenzuela** of **Holmdel** in County of **Monmouth** and State of **New Jersey** hereby sell, assign and transfer to Alcatel-Lucent USA Inc., a corporation of the State of Delaware, having an office at 600-700 Mountain Avenue, Murray Hill, NJ 07974, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **SPATIALLY GROUPED RANDOM ACCESS IN A WIRELESS NETWORK** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Alcatel-Lucent USA Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Alcatel-Lucent USA Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Alcatel-Lucent USA Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Alcatel-Lucent USA Inc. in the United States and in all countries foreign to the United States, or to such nominees as Alcatel-Lucent USA Inc. may designate.

We agree that, when requested, I shall, without charge to Alcatel-Lucent USA Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Attorney Docket No. 29250-002642/US
Alcatel-Lucent Ref. No. 801589-US-NP


Howard Huang

Date: April 8, 2013

United States of America

State of New Jersey

County of Hancock

On this 8th day of April, 2013, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

Harpreet Singh Dhillon

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Attorney Docket No. 29250-002642/US
Alcatel-Lucent Ref. No. 801589-US-NP

Harish
Harish Viswanathan

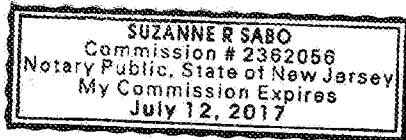
Date: May 6, 2013

United States of America

State of New Jersey

County of Union

HARISH VISWANATHAN On this 6th day of May, 2013, before me personally came HARISH VISWANATHAN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Suzanne R. Sabo
Notary Public

Reinaldo Valenzuela

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Alcatel-Lucent USA Inc.
600 Mountain Avenue (Room 3D-201)
P. O. Box 636
Murray Hill, New Jersey 07974-0636

ASSIGNMENT AND AGREEMENT

For value received, we, **Howard Huang** of New York in County of New York and State of New York, **Harpreet Singh Dhillon** of Austin in County of Travis and State of Texas, **Harish Viswanathan** of Murray Hill in County of Union and State of New Jersey, **Rcinaldo Valenzuela** of Holmdel in County of Monmouth and State of New Jersey hereby sell, assign and transfer to Alcatel-Lucent USA Inc., a corporation of the State of Delaware, having an office at 600-700 Mountain Avenue, Murray Hill, NJ 07974, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **SPATIALLY GROUPED RANDOM ACCESS IN A WIRELESS NETWORK** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Alcatel-Lucent USA Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Alcatel-Lucent USA Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Alcatel-Lucent USA Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Alcatel-Lucent USA Inc. in the United States and in all countries foreign to the United States, or to such nominees as Alcatel-Lucent USA Inc. may designate.

We agree that, when requested, I shall, without charge to Alcatel-Lucent USA Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Howard Huang

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally
came _____, to me known to be the individual described in and who executed
the foregoing instrument, and acknowledged execution of the same.

Notary Public

Harpreet Singh

Harpreet Singh Dhillon

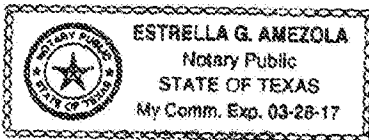
Date: 06/03/13

United States of America

State of Texas

County of Travis

On this 3rd day of June, 2013 before me personally
came Harpreet Dhillon to me known to be the individual described in and who executed
the foregoing instrument, and acknowledged execution of the same.



[Signature]

Notary Public

Harish Viswanathan

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Reinaldo Valenzuela

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Alcatel-Lucent USA Inc.
600 Mountain Avenue (Room 3D-201)
P. O. Box 636
Murray Hill, New Jersey 07974-0636

ASSIGNMENT AND AGREEMENT

For value received, we, **Howard Huang** of **New York** in County of **New York** and State of **New York**, **Harpreet Singh Dhillon** of **Austin** in County of **Travis** and State of **Texas**, **Harish Viswanathan** of **Murray Hill** in County of **Union** and State of **New Jersey**, **Reinaldo Valenzuela** of **Holmdel** in County of **Monmouth** and State of **New Jersey** hereby sell, assign and transfer to Alcatel-Lucent USA Inc., a corporation of the State of Delaware, having an office at 600-700 Mountain Avenue, Murray Hill, NJ 07974, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **SPATIALLY GROUPED RANDOM ACCESS IN A WIRELESS NETWORK** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Alcatel-Lucent USA Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Alcatel-Lucent USA Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Alcatel-Lucent USA Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Alcatel-Lucent USA Inc. in the United States and in all countries foreign to the United States, or to such nominees as Alcatel-Lucent USA Inc. may designate.

We agree that, when requested, I shall, without charge to Alcatel-Lucent USA Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Howard Huang

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20__, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Harpreet Singh Dhillon

Date: _____

United States of America

State of _____

County of _____

On this _____ day of _____, 20__, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Harish Viswanathan

Date: _____

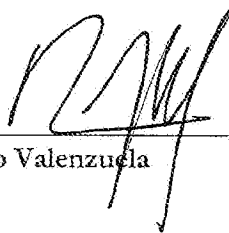
United States of America

State of _____

County of _____

On this _____ day of _____, 20____, before me personally came _____, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public



Reinaldo Valenzuela

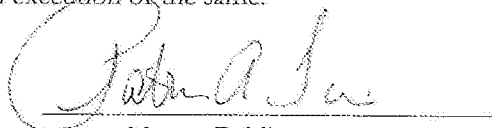
Date: April 8, 2013

United States of America

State of New Jersey

County of Monmouth

On this 8th day of April, 2013, before me personally came Reinaldo Valenzuela, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

Alcatel-Lucent USA Inc.
600 Mountain Avenue (Room 3D-201)
P. O. Box 636
Murray Hill, New Jersey 07974-0636