

RECORDATION FORM COVER
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103644022

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original

MLD 5-1-12

1. Name of conveying party(ies):
Li Li
Sungro Yoon
Michael Zierdt

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: **April 25, 2012, April 19, 2012, April 25, 2012**

2. Name and address of receiving party(ies):
Name: **Alcatel-Lucent USA Inc.**
Internal Address: _____
Street Address: **600 Mountain Ave**
City: **Murray Hill** State: **NJ** Zip: **07974**

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)
(13/416,050)

B. Patent No. (s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Harness, Dickey & Pierce, P.L.C.**
Internal Address:
Street Address: **P.O. Box 8910**
City: **Reston** State: **VA** Zip: **20195**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41) \$ **\$40.00**
 Enclosed
 Authorized to be charged to deposit account
05/03/2012 APRIL 13 13416050 01 FC:8021 40.00 UP

8. Deposit account number: **08-0750**
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gary D. Yacura _____ **35,416** _____ **May 1, 2012** _____
Registration No. Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D. C. 20231

Attorney Docket No. 29250-002603/US
Alcatel-Lucent Ref. No. 810928-US-NP

ASSIGNMENT AND AGREEMENT

For value received, we, Li Li of Edison in County of Middlesex and State of New Jersey, Sungro Yoon of _____ in County of _____ and State of _____, and Michael Zierdt of Hillsborough in County of Somerset 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 **METHOD AND APPARATUS FOR DETERMINING AVAILABLE BANDWIDTH FOR WIRELESS COMMUNICATION** 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.

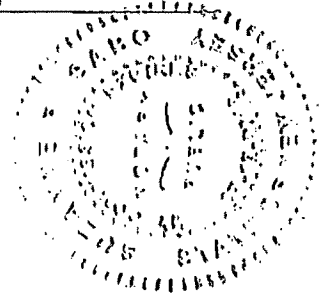
We agree that, when requested, I shall, without charge to Alcatel-Lucent USA Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Attorney Docket No. 29250-002603/US
Alcatel-Lucent Ref. No. 810928-US-NP

(Signature)
Li Li

Date: 4/25/2012

United States of America
State of New Jersey
County of Union



On this 25th day of April, 2012, before me personally came Li Li, 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 - State of NJ
Commission No. 2362058
My Commission Expires 7/12/2012

(Signature)
Notary Public

Sungro Yoon

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. 29250-002603/US
Alcatel-Lucent Ref. No. 810928-US-NP

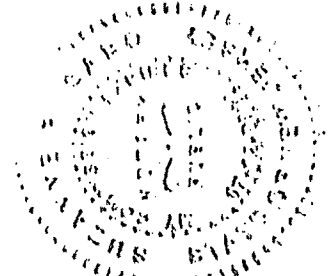
Date: 4/25/12

Michael G. Zierdt
Michael G. Zierdt

United States of America

State of New Jersey

County of Union



On this 25th day of April, 2012, before me personally came Michael Zierdt, 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

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

Suzanne R. Sabo
Notary Public - State of NJ
Commission No. 2362056
My Commission Expires 7/12/2012

ASSIGNMENT AND AGREEMENT

For value received, we, Li Li of Edison in County of Middlesex and State of New Jersey, Sungro Yoon of Raleigh in County of Wake and State of North Carolina, and Michael Zierdt of Hillsborough in County of Somerset 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 **METHOD AND APPARATUS FOR DETERMINING AVAILABLE BANDWIDTH FOR WIRELESS COMMUNICATION** 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.

Li Li

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



Sungro Yoon

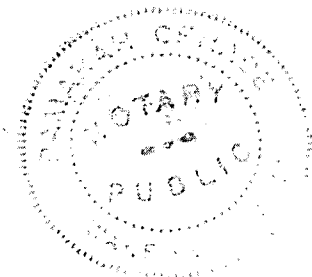
Date: April 19, 2012

United States of America

State of North Carolina

County of Wake

On this 19th day of April, 2012, before me personally came Sungro Yoon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Pamarrh Gerace

Notary Public Pamarrh Gerace

My Commission Expires: 3-26-2017