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12-5-12

RECORDATION FORM COVER SHEET

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)			
Katherine GUO	Name: Alcatel-Lucent USA Inc.			
Thomas WOO	Street Address: 600-700 Mountain Avenue			
	City: Murray Hill			
•	State: New Jersey			
Additional name(s) of conveying party(ies) attached?	Country: USA Postal Code: 07974			
3. Nature of conveyance:	Additional name(s) & address(es) attached? YES NO			
Assignment	Additional name(s) & address(es) attached:			
Change of Name Other:				
Execution Date: 1) October 16, 2012 & 2) October 26, 2012				
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).	B. Patent No.(s).			
13/622,065				
Additional numbers attac	ched? YES NO			
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total No. of applications/patents involved: One (1)			
Name: HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 C.F.R. § 3.41): \$40.00			
Street Address: P.O. BOX 8910	⊠ Enclosed			
	Authorized to be charged to deposit account, if no fee attached.			
	8. Deposit account number: 08-0750			
Country: USA				
	(Attach triplicate 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 for copy is a true copy of the original document. Gary D. Yacura/35,416	egoing information is true and correct and any attached Hes Ary Fire 17881 and Descember 5, 2012			
Name of Person Signing/Reg. No.	Signature 01 FC:8021 40.00 0p			
Total number of pages including cover sheet, attachments, and document: seven (7)				

PATENT REEL: 029554 FRAME: 0623

ASSIGNMENT AND AGREEMENT

For value received, we, Katherine GUO of Scotch Plains in County of Union and State of New Jersey and Thomas WOO of Short Hills in County of Essex 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 ALLOCATING AND UPLINK AND FOR SCHEDULING METHODS DOWNLINK TRANSMISSIONS AND APPARATUSES THEREOF 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.

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Attorney Docket No. 29250-002632/US Alcatel-Lucent Ref. No. 812060

Katherine GUO

Katherine GUO

United States of America

State of New Jersey

County of <u>Union</u>

> Suzanie R. Sn. ko Notary Public

> > SUZANNE R SABO
> > Commission # 2362056
> > otary Public, State of New Jersey
> > My Commission Expires
> > July 12, 2017

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

Attorney Docket No. 29250-002632/US Alcatel-Lucent Ref. No. 812060

Date:		Thomas WOO
United States of America		
State of		· .
County of		
	, to me known to be the	, 20, before me personal e individual described in and who execute cution 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

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ASSIGNMENT AND AGREEMENT

For value received, we, Katherine GUO of Scotch Plains in County of Union and State of New Jersey and Thomas WOO of Short Hills in County of Essex and State of New Jersey, hereby sell, assign and transfer to Alçatel-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 ALLOCATING AND SCHEDULING **UPLINK** METHODS FOR DOWNLINK TRANSMISSIONS AND APPARATUSES THEREOF 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.

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1

Attorney Docket No. 29250-002632/US Alcatel-Lucent Ref. No. 812060

•		Katherine GUO	
Date:	The state of the s		
United States of America			
State of			
County of			
On this came the foregoing instrument	, to me known to be t	, 20, before me pe the individual described in and who e xecution of the same.	rsonally xecuted
		Notary Public	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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

Thomas WOO

Date: 26 October 2012

United States of America

County of Union

On this 26 th day of Octobe, 20 before me personally came Thomas has, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Margnet Grace Gos.
Notary Public

Margaret Grace Gelsi A Notary Public of New Jersey My Commission Expires April 14, 2014

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

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PATENT REEL: 029554 FRAME: 0629

RECORDED: 12/05/2012