

12-11-2009



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103583285

To the Honorable Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office, Washington, DC 20503-1450. One attached original documents or copy thereof.

1. Name of conveying party(ies):

1. Xiang Liu
2. Chandrasekhar Sethumadhavan
3. Robert William Tkach

Additional name(s) of conveying party(ies) attached? ☐

Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date(s): 10/1/2009.

2. Name and address of receiving party(ies)

Name: Alcatel-Lucent USA Inc.

Internal Address: _____

Street Address: 600-700 Mountain Avenue

P.O. Box 636

City: Murray Hill State: NJ ZIP: 07974-0636

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)

12/565,600

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Use address associated with

Customer # 22046.

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

8. Deposit account number: 12-2325

(Attach duplicate copy of this page if paying by deposit account)

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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.

David M. La Bruno

Name of Person Signing

David M. La Bruno

Signature

Dec 3, 2009

Date

Total number of pages including cover sheet, attachments, and information: 1 12/07/2009 122325 12565600

Mail documents to be recorded with required cover sheet information: DA

Mail Stop Assignment Recordation Services

Director of the US Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450

Case Name/No.: 806008

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop **ASSIGNMENT**, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on December 7, 2009.

Margaret Cardoso
Margaret Cardoso

ASSIGNMENT AND AGREEMENT

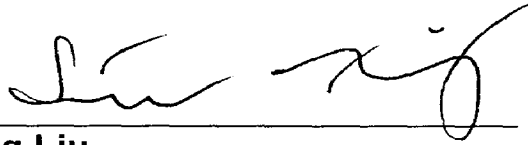
For value received, I, **Xiang Liu**, of Marlboro in the County of Monmouth and the State of New Jersey, **Chandrasekhar Sethumadhavan**, of Old Bridge, in the County of Middlesex and the State of New Jersey, and **Robert William Tkach**, of Little Silver in the County of Monmouth and the State of New Jersey, hereby sell, assign and transfer to **Alcatel-Lucent USA Inc.**, a corporation of Delaware, having an office at 600-700 Mountain Avenue, Murray Hill, New Jersey 07974-0636, United States of America, 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 **Digital Coherent detection Of Multi-Carrier Optical Signal** described in an application for Letters Patent of the United States, Serial No. **12/565600**, filed **September 23, 2009**, 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 I 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.

I 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.

I 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.

I 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.

I 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.



Xiang Liu

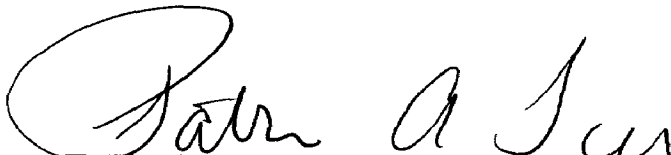
Date: 10/1/09

United States of America)

State of New Jersey) ss.:

County of Monmouth)

On this 1st day of October, 20 09, before me personally came, **Xiang Liu** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

Patricia A Tier
Notary Public
New Jersey
My Commission Expires 8/28/2012

Chandrasekhar S.
Chandrasekhar Sethumadhavan

Date: October 1st, 2009

United States of America)

State of New Jersey) ss.:

County of Hammath)

On this 1st day of October, 2009, before
me personally came, **Chandrasekhar Sethumadhavan** to me known to be the
individual described in and who executed the foregoing instrument, and
acknowledged execution of the same.

Patricia A Tier
Notary Public

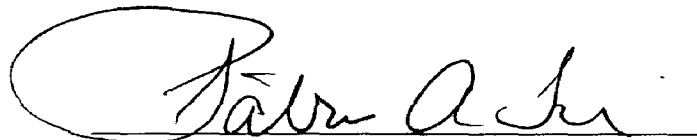
Patricia A Tier
Notary Public
New Jersey
My Commission Expires 8/28/2012


Robert William TkachDate: 10/1/09

United States of America)

State of New Jersey) ss.:County of Hammath)

On this 1st day of October, 2009, before me personally came, **Robert William Tkach** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

Patricia A Tier
Notary Public
New Jersey
My Commission Expires 8/28/2012

Alcatel-Lucent USA Inc.