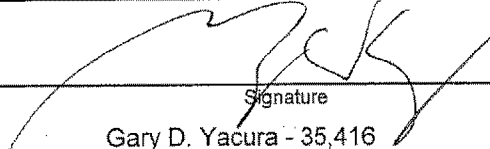


Form PTO-1595 (Rev. 6-12)
OMB No. 0651-0027 (exp. 04/30/2015)

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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p>1. Name of conveying party(ies): Carl J. NUZMAN</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Alcatel-Lucent USA Inc.</u></p> <p>Internal Address: _____</p> <p>Street Address: _____</p> <p>600-700 Mountain Avenue</p> <p>City: <u>Murray Hill</u></p> <p>State: <u>New Jersey</u></p> <p>Country: <u>United States of America</u> Zip: <u>07974</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance/Execution Date(s):</p> <p>Execution Date(s): <u>January 22, 2013</u></p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement</p> <p><input type="checkbox"/> Government Interest Assignment</p> <p><input type="checkbox"/> Executive Order 9424, Confirmatory License</p> <p><input type="checkbox"/> Other _____</p>	<p>4. Application or patent number(s): <input type="checkbox"/> This document serves as an Oath/Declaration (37 CFR 1.63).</p> <p>A. Patent Application No.(s) <u>13/749,097</u></p> <p>B. Patent No.(s) _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Gary D. Yacura</u> <u>HARNESS, DICKEY & PIERCE, P.L.C.</u></p> <p>Internal Address: <u>Atty. Dkt.: 29250-002655/US</u></p> <p>Street Address: <u>P.O. Box 8910</u></p> <p>City: <u>Reston</u></p> <p>State: <u>VA</u> Zip: <u>20195</u></p> <p>Phone Number: <u>(703) 668-8000</u></p> <p>Fax Number: <u>(703) 668-8200</u></p> <p>Email Address: <u>dcmalroom@hdp.com</u></p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> None required (government interest not affecting title)</p>
<p>8. Payment Information</p> <p>Deposit Account Number <u>08-0750</u></p> <p>Authorized User Name <u>Gary D. Yacura</u></p>	
<p>9. Signature:</p> <p style="text-align: center;"></p> <p style="text-align: center;">Signature _____ Date <u>January 25, 2013</u></p> <p style="text-align: center;">Name of Person Signing <u>Gary D. Yacura - 35,416</u></p> <p style="text-align: right;">Total number of pages including cover sheet, attachments, and documents: 4</p>	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1460

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GDY/jaw

Attorney Docket No. 29250-002655/US
Alcatel-Lucent Ref. No. 813139-US-NP

ASSIGNMENT AND AGREEMENT

For value received, I, **Carl NUZMAN** of **Union** in County of **Union** 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 **METHODS AND SYSTEMS FOR REDUCING CROSSTALK** 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 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.

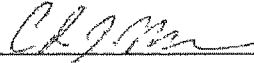
I authorize Alcatel-Lucent USA Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization 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.

Attorney Docket No. 29250-002655/US
Alcatel-Lucent Ref. No. 813139-US-NP



Carl NUZMAN

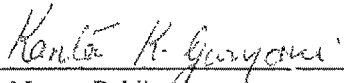
Date: January 22nd 2013

United States of America

State of New Jersey

County of Union

On this 22nd day of January, 2013, before me personally came Carl Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

KANTA K. GURNANI
Notary Public, State of New Jersey
My Commission Expires
July 17, 2014

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