

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Rene'-Jean Essiambre</td> <td>06/25/2009</td> </tr> <tr> <td>Roland Ryf</td> <td>06/25/2009</td> </tr> <tr> <td>Peter J. Winzer</td> <td>06/25/2009</td> </tr> </tbody> </table>		Name	Execution Date	Rene'-Jean Essiambre	06/25/2009	Roland Ryf	06/25/2009	Peter J. Winzer	06/25/2009		
Name	Execution Date										
Rene'-Jean Essiambre	06/25/2009										
Roland Ryf	06/25/2009										
Peter J. Winzer	06/25/2009										
RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Alcatel-Lucent USA Inc.</td> </tr> <tr> <td>Street Address:</td> <td>600 Mountain Avenue</td> </tr> <tr> <td>City:</td> <td>Murray Hill</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07974</td> </tr> </table>		Name:	Alcatel-Lucent USA Inc.	Street Address:	600 Mountain Avenue	City:	Murray Hill	State/Country:	NEW JERSEY	Postal Code:	07974
Name:	Alcatel-Lucent USA Inc.										
Street Address:	600 Mountain Avenue										
City:	Murray Hill										
State/Country:	NEW JERSEY										
Postal Code:	07974										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12492399</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12492399						
Property Type	Number										
Application Number:	12492399										
CORRESPONDENCE DATA											
<p>Fax Number: (215)557-8477</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-557-6656</p> <p>Email: amy@mendelip.com</p> <p>Correspondent Name: Steve Mendelsohn</p> <p>Address Line 1: Mendelsohn, Drucker, & Associates, P.C.</p> <p>Address Line 2: 1500 John F. Kennedy Blvd., Suite 405</p> <p>Address Line 4: Philadelphia, PENNSYLVANIA 19102</p>											
ATTORNEY DOCKET NUMBER:	ESSIAMBRE 22-36										
NAME OF SUBMITTER:	Yuri Gruzdkov										
<p>Total Attachments: 4</p> <p>source=Essiambre_22_36_990_0678_Assignment#page1.tif</p>											

OP \$40.00 12492399

500896649

PATENT
REEL: 022881 FRAME: 0172

source=Essiambre_22_36_990_0678_Assignment#page2.tif
source=Essiambre_22_36_990_0678_Assignment#page3.tif
source=Essiambre_22_36_990_0678_Assignment#page4.tif

Customer No.: 46850

Attorney Docket No.: Essiambre 22-36

ASSIGNMENT AND AGREEMENT

For value received, I, as a below-named inventor:

Rene'-Jean Essiambre of ***Red Bank*** in the State of New Jersey,
Roland Ryf of ***Aberdeen*** in the State of New Jersey,
Peter J. Winzer of ***Aberdeen*** in the 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, New Jersey 07974, U.S.A., 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 **TRANSVERSE-MODE MULTIPLEXING FOR OPTICAL COMMUNICATION SYSTEMS** described in an application for Letters Patent of the United States, identified using the same Attorney Docket No., 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 me, 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.

Customer No.: 46850

-2-

Attorney Docket No.: Essiambre 22-36

Rene-Jean Essiambre
Rene-Jean Essiambre

Date: June 25, 2009

United States of America)

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

On this 25th day of June, 2009, before me
personally came **Rene-Jean Essiambre**, 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

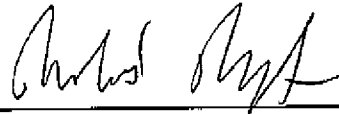


Patricia A Tier
Notary Public
New Jersey

My Commission Expires 8/28/2012

Customer No.: 46850

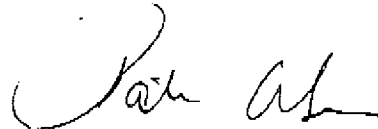
-3-

Attorney Docket No.: Essiambre 22-36Roland RylDate: June 25, 2009

United States of America)

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

On this 25th day of June, 2009, before me personally came **Roland Ryl**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

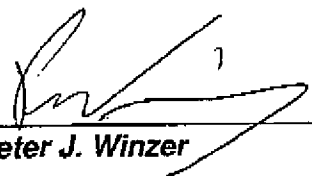


Notary Public



Customer No.: 46850

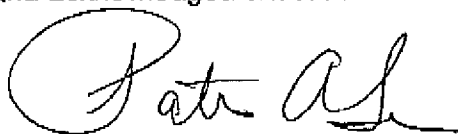
-4-

Attorney Docket No.: Essiambre 22-38
Peter J. WinzerDate: June 25, 2009

United States of America)

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

On this 25th day of June, 2009, before me
personally came **Peter J. Winzer**, 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.
600-700 Mountain Avenue
Murray Hill, New Jersey 07974

990.0678