

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Neda Cvijetic</td> <td>05/14/2013</td> </tr> <tr> <td>Konstantinos Kanonakis</td> <td>05/13/2013</td> </tr> <tr> <td>Jingjing Zhang</td> <td>05/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Neda Cvijetic	05/14/2013	Konstantinos Kanonakis	05/13/2013	Jingjing Zhang	05/10/2013				
Name	Execution Date												
Neda Cvijetic	05/14/2013												
Konstantinos Kanonakis	05/13/2013												
Jingjing Zhang	05/10/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>NEC Laboratories America, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>4 Independence Way</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 200</td> </tr> <tr> <td>City:</td> <td>Princeton</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>08540</td> </tr> </table>		Name:	NEC Laboratories America, Inc.	Street Address:	4 Independence Way	Internal Address:	Suite 200	City:	Princeton	State/Country:	NEW JERSEY	Postal Code:	08540
Name:	NEC Laboratories America, Inc.												
Street Address:	4 Independence Way												
Internal Address:	Suite 200												
City:	Princeton												
State/Country:	NEW JERSEY												
Postal Code:	08540												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13644238</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13644238								
Property Type	Number												
Application Number:	13644238												
CORRESPONDENCE DATA													
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 609-951-2522</p> <p>Email: jill@nec-labs.com</p> <p>Correspondent Name: NEC LABORATORIES AMERICA, INC.</p> <p>Address Line 1: 4 INDEPENDENCE WAY</p> <p>Address Line 2: Suite 200</p> <p>Address Line 4: PRINCETON, NEW JERSEY 08540</p>													
ATTORNEY DOCKET NUMBER:	11051												
NAME OF SUBMITTER:	Jill Rittenhouse												
Signature:	/Jill Rittenhouse/												
Date:	05/14/2013												
<p>Total Attachments: 1</p> <p>source=signedassignment#page1.tif</p>													

CH \$40.00 13644238

PATENT

## ASSIGNMENT

Whereas, we,

- (1) Neda Cvijetic, of 1110 Fox Run Drive, Plainsboro, NJ 08536;
- (2) Konstantinos Kanonakis, of Orlof 10, 11741, Athens, Greece; and
- (3) Jingjing Zhang, of 4801 Sheboygan Avenue, Apt. 606, Madison, WI 53705

(hereinafter called "Assignor(s)"), have made a certain invention, and executed United States Patent Application Serial No. 13/644,238, filed on October 3, 2012, entitled:

### **802.3av COMPLIANT METHOD USING SMALL TIMESCALE BANDWIDTH ASSIGNMENT FOR INCREASED ONU DOWNSTREAM ENERGY EFFICIENCY**

Whereas, NEC Laboratories America, Inc.  
4 Independence Way, Suite 200  
Princeton, New Jersey 08540

(hereinafter called "Assignee"), desires to acquire the entire right, title, and interest in the application and the invention, and to any applications, patents and/or utility model registrations filed or obtained therefor in every Country (hereinafter called the "Designated Countries").

Now therefore, for valuable consideration, receipt of which is hereby acknowledged,

I/we, the above named Assignor(s), hereby sell, assign and transfer to the above named Assignee the entire right, title and interest to file and/or obtain any applications, patents and/or utility model registrations in the Designated Countries as regards the United States application and the invention disclosed therein (including rights of priority based on the United States application), and I/we will execute without further consideration all papers deemed necessary by the Assignee in connection with such applications, patents and/or utility model registrations in the Designated Countries when called upon to do so by the Assignee.

Signed and Sealed:

**INVENTOR 1:**

**DATE on** 5/14/2013

  
\_\_\_\_\_  
Neda Cvijetic

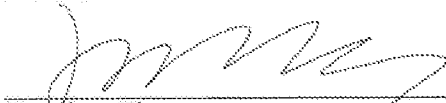
**INVENTOR 2:**

**DATE on** 5/13/2013

  
\_\_\_\_\_  
Konstantinos Kanonakis

**INVENTOR 3:**

**DATE on** 5/10/13

  
\_\_\_\_\_  
Jingjing Zhang