PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EUGENE CHAI	06/11/2015
XIUFENG XIE	06/11/2015
MOHAMMAD KHOJASTEPOUR	06/10/2015
KARTHIKEYAN SUNDARESAN	06/11/2015
SAMPATH RANGARAJAN	06/11/2015

RECEIVING PARTY DATA

Name:	NEC LABORATORIES AMERICA, INC.	
Street Address:	4 INDEPENDENCE WAY	
City:	PRINCETON	
State/Country:	NEW JERSEY	
Postal Code:	08540	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14738268

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DATE SIGNED:	06/12/2015

Total Attachments: 2

PATENT REEL: 035830 FRAME: 0111

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> PATENT REEL: 035830 FRAME: 0112

ASSIGNMENT

Whereas, we,

- (1) Eugene Chai, of 10003 Barclay Boulevard, Princeton, NJ 08540;
- (2) Xiufeng Xie, of 2924 Harvey Street Apt 5C, Madison, WI 53705;
- (3) Mohammad Khojastepour, of 17 Port Mercer Road, Lawrenceville, NJ 08648;
- (4) Karthikeyan Sundaresan, of 245 Larchwood Court, Howell, NJ 07731; and
- (5) Sampath Rangarajan, of 40 Linberger Drive, Bridgewater, NJ 08807

(hereinafter called "Assignor(s)"), have made a certain invention, and executed United States Patent Application entitled:

EFFICIENT LARGE-SCALE MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS

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:

DATED on <u>06/11/2015</u>

(Eugene/

Name Middle Initial

Chai) Last Name

INVENTOR 2:

DATED on 06/11/2015

(Xiufeng)

ne Middle Initial

Last Name

REEL: 035830 FRAME: 0113

Attorney Docket: 14040B (449-376)

INVENTOR 3:

DATED on <u>6/10/20</u>15

(Mohammad First Name

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Khojastepour) Last Name

INVENTOR 4:

DATED on 6/11/2015

(Karthikeyan First Name

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INVENTOR 5:

DATED on 6/11/15

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First Name

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