

## PATENT ASSIGNMENT

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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>Narayan Prasad</td> <td>01/04/2012</td> </tr> <tr> <td>Honghai Zhang</td> <td>01/04/2012</td> </tr> <tr> <td>Meilong Jiang</td> <td>01/04/2012</td> </tr> <tr> <td>Guosen Yue</td> <td>01/04/2012</td> </tr> <tr> <td>Sampath Rangarajan</td> <td>01/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Narayan Prasad	01/04/2012	Honghai Zhang	01/04/2012	Meilong Jiang	01/04/2012	Guosen Yue	01/04/2012	Sampath Rangarajan	01/04/2012
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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
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PROPERTY NUMBERS Total: 1													
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Application Number:	13343398												
CORRESPONDENCE DATA													
Fax Number:	(631)844-0081												
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Email:	carrie@tb-iplaw.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	NEC LABORATORIES AMERICA, INC.												
Address Line 1:	4 INDEPENDENCE WAY												
Address Line 2:	Suite 200												
Address Line 4:	PRINCETON, NEW JERSEY 08540												
ATTORNEY DOCKET NUMBER:	10079 (449-229)												

CH \$40.00 13343398

NAME OF SUBMITTER:

James J. Bitetto

Total Attachments: 3

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**ASSIGNMENT**

Whereas, we,

- (1) **Narayan Prasad**, of 8470 Limekiln Pike, 625-2, Wyncote, PA 19095; and
- (2) **Honghai Zhang**, of 143 West Farrell Avenue, Apt. A3, Ewing, NJ 08618; and
- (3) **Meilong Jiang**, of 5214 Wyndhurst Drive, Plainsboro, NJ 08536; and
- (4) **Guosen Yue**, of 2314 Pheasant Hollow Drive, Plainsboro, NJ 08536; 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:

**RESOURCE ALLOCATION IN 4G MIMO CELLULAR UPLINKS**

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").

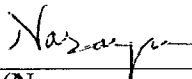
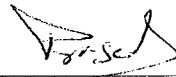
Now therefore, for valuable consideration, receipt of which is hereby acknowledged,

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:

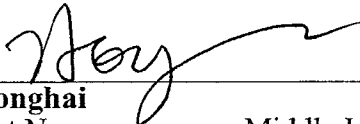
**INVENTOR 1:**

**DATED** on 1/4/2012

	
(Narayan)	(Prasad)
First Name	Middle Initial      Last Name

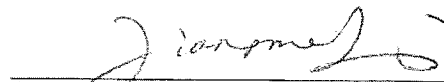
**INVENTOR 2:**

**DATED** on 1/4/2012


(Honghai)
First Name      Middle Initial      Last Name

**INVENTOR 3:**

**DATED** on 1/4/2012

  
\_\_\_\_\_  
(**Meilong**)                      **Jiang**  
First Name                      Middle Initial                      Last Name

**INVENTOR 4:**

**DATED** on \_\_\_\_\_

\_\_\_\_\_  
(**Guosen**)                      **Yue**  
First Name                      Middle Initial                      Last Name

**INVENTOR 5:**

**DATED** on \_\_\_\_\_

\_\_\_\_\_  
(**Sampath**)                      **Rangarajan**  
First Name                      Middle Initial                      Last Name

**INVENTOR 3:**

**DATED** on \_\_\_\_\_

(**Meilong**  
First Name

Middle Initial

(**Jiang**)  
Last Name

**INVENTOR 4:**

**DATED** on 01/04/2012

(**Guosen**  
First Name

Middle Initial

(**Yue**)  
Last Name

**INVENTOR 5:**

**DATED** on 01/04/2012

(**Sampath**  
First Name

Middle Initial

(**Rangarajan**)  
Last Name