503017671 10/14/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

c Version v1.1 EPAS ID: PAT3064272

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| IVAN B. DJORDJEVIC | 10/09/2014 |
| TING WANG | 10/10/2014 |

RECEIVING PARTY DATA

| Name: | NEC LABORATORIES AMERICA, INC. |
|-----------------|--------------------------------|
| Street Address: | 4 INDEPENDENCE WAY, SUITE 200 |
| City: | PRINCETON |
| State/Country: | NEW JERSEY |
| Postal Code: | 08540 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14513671 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 13068 (449-337) | |
|-------------------------|------------------|--|
| NAME OF SUBMITTER: | JAMES J. BITETTO | |
| SIGNATURE: | /jjb/ | |
| DATE SIGNED: | 10/14/2014 | |

Total Attachments: 1

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PATENT 503017671 REEL: 033945 FRAME: 0060

ASSIGNMENT

Whereas, we,

- (1) Ivan B. Djordjevic, of 3801 N. River Hills Dr., Tucson, AZ 85750; and
- (2) Ting Wang, of 10 Glacier Drive, West Windsor, NJ 08550.

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

NON-BINARY LDPC CODED MODE-MULTIPLEXED FOUR-DIMENSIONAL SIGNALING BASED ON ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING

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:

RECORDED: 10/14/2014

| INVENTOR 1: | | Inan Dyrdjer | { } |
|-------------------------|-----------------------------|-----------------------------|------------------------------|
| DATED on10/09/14 | (Ivan First Name | B. Middle Initial | Djordjevic) Last Name |
| INVENTOR 2: | • | | |
| DATED on | (Ting First Name | Middle Initial | Wang) Last Name |

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