

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Duong PHAM | 08/04/2010 |
| Chaitanya RAO | 08/04/2010 |
| Thirukkumaran SIVAHUMARAN | 08/04/2010 |
| RECEIVING PARTY DATA | |
| Name: | NEC CORPORATION |
| Street Address: | 7-1, Shiba 5-chome, Minato-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 108-8001 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12865544 |
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OP \$40.00 12865544

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PATENT
REEL: 024820 FRAME: 0676

Attorney Docket No. _____

ASSIGNMENT

WHEREAS,

Duong PHAM, Chaitanya RAO, and Thirukkumaran SIVAHUMARAN
of Victoria, Australia

hereafter referred to as "applicant(s)", have invented certain new and useful improvements in
ESTIMATING CHANNEL CONDITIONS IN A MIMO OFDM COMMUNICATION SYSTEM

- (a) for which an application for a United States patent was filed on _____, Application No. _____,
- (b) for which an application for a United States patent was executed on August 4, 2010

WHEREAS, NEC CORPORATION
whose address is 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001 Japan

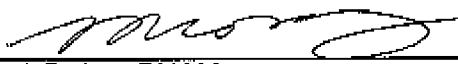
hereinafter referred to as "assignee(s)", is desirous of acquiring the entire right, title and interest in and to the same,

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receipt whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es)

hereby sell, assign and transfer unto said assignee(s) the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patents may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made.

Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s).

Date August 4, 2010



(signature) Duong PHAM

Date August 4, 2010



(signature) Chaitanya RAO

Date August 4, 2010

S. Thirukkumaran.

(signature) Thirukkumaran SIVAHUMARAN

Date _____

(signature)

Date _____

(signature)

Witness:

