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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NEC EUROPE LTD. | 12/08/2017 |
| RECEIVING PARTY DATA | |
| Name: | NEC CORPORATION |
| Street Address: | 7-1, SHIBA 5-CHOME, MINATO-KU |
| Internal Address: | MINATO-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 108-8001 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Patent Number: | 9003497 |
| Patent Number: | 9253098 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 4040-10497-4040-1097/1109 |
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| SIGNATURE: | /ERIC JENSEN/ |
| DATE SIGNED: | 12/22/2017 |
| Total Attachments: 1 source=ASSMT#page1.tif | |

ASSIGNMENT

WHEREAS, NEC EUROPE LTD. is the owner of the entire right, title and interest of the inventions in:

- U.S. Patent No. 9,003,497, by virtue of an assignment recorded on April 10, 2013, at Reel 030183, and Frame 0761;
- U.S. Patent No. 9,253,098, by virtue of an assignment recorded on September 25, 2013, at Reel 031273, and Frame 0269;

AND WHEREAS, NEC Corporation, located and doing business at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan, hereinafter referred to as "assignee", 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 and sufficiency of which is hereby acknowledged, and other good and valuable consideration, the owner, by these presents does sell, assign and transfer unto said assignee the full and exclusive right to the said inventions in the United States, and the entire right, title and interest in and to the said Patent applications aforesaid, and to any and all patents which may be granted therefor in the United States; the same to be held and enjoyed by the said assignee for its own use and behoof, and for its legal representatives and assigns, 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 the owner had this assignment and sale not been made.

NEC EUROPE LTD.

By J. Quittel
Signature

Name Dr. Jürgen Quittel
(print name)

Title Vice President
(print title)

Date December 8, 2017