PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6535273

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| MUNEHIRO TADA | 11/07/2012 |
| MAKOTO MIYAMURA | 11/07/2012 |
| HIROMITSU HADA | 11/07/2012 |

RECEIVING PARTY DATA

| Name: | NEC CORPORATION | |
|-----------------|-------------------------------|--|
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| City: | TOKYO | |
| State/Country: | JAPAN | |
| Postal Code: | 108-8001 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14709699 |

CORRESPONDENCE DATA

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|-------------------------|---------------------|--|
| NAME OF SUBMITTER: | JASON A. JENNINGS | |
| SIGNATURE: | /Jason A. Jennings/ | |
| DATE SIGNED: | 02/04/2021 | |

Total Attachments: 2

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PATENT REEL: 055155 FRAME: 0125 506488497

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

MUNEHIRO TADA,

MAKOTO MIYAMURA and HIROMITSU HADA

NAME AND ADDRESS OF ASSIGNOR

c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(HEREINAFTER REFERRED TO AS ASSIGNOR), have invented and own a certain new and useful invention entitled:

TITLE OF INVENTION:

SEMICONDUCTOR DEVICE AND OPERATION METHOD FOR SAME

WHEREAS:

FULL NAME AND ADDRESS OF ASSIGNEE

NEC Corporation

7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and interest in, to and under said invention and the United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the

United States Patent obtained therefor on said application or any (Assignment of Application for Patent -- page 1 of 2)

PATENT REEL: 0**296**35 FRAME: 01**2**6 continuation, division, renewal, substitute or reissue thereof for the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING

IN WITNESS WHEREOF, I/We have hereunto set

hand and seal this 7th day of November, 2012

SIGNATURE

SIGNATURE

SIGNATURE

y: Munchino Ja

MUNEHIRO TADA

MAKOTO MIVAMIRA

By: Hiromiten Hada

HIROMITSU HADA

WITNESSES

(Assignment of Application for Patent -- page 2 of 2)

PATENT

REEL: 029635 FRAME: 0127

RECORDED: 02/Q4/2022