503660079 01/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3706713

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| HIKARI TAJIMA | 01/14/2016 |
| TAKASHI IZUMIDA | 01/14/2016 |

RECEIVING PARTY DATA

| Name: | KABUSHIKI KAISHA TOSHIBA | |
|-----------------|----------------------------------|--|
| Street Address: | 1-1, Shibaura 1-chome, Minato-Ku | |
| City: | Tokyo | |
| State/Country: | Japan | |
| Postal Code: | 105-8001 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15003888 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703) 413-3000
Email: AAdams@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 466303US20 |
|-------------------------|--|
| NAME OF SUBMITTER: | ARIELLE ADAMS |
| SIGNATURE: | /Arielle Adams/ |
| DATE SIGNED: | 01/22/2016 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 2

source=466303USASN#page1.tif source=466303USASN#page2.tif

PATENT 503660079 REEL: 037555 FRAME: 0819

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of SEMIC Invention | CONDUCTOR MEMORY DEVICE | |
|--|---|--|
| As the below named invento | r, I hereby declare that: | |
| This declaration 🔀 The attached application, or | | |
| is directed to: United States application or PCT international application number | | |
| The above-identified application was made or authorized to be made by me. | | |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. | | |
| WHEREAS, KABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of business at: 1-1. Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; | | |
| acknowledged, and for other said ASSIGNEE, the full are and in all foreign countries other relevant International interest in and to any and a possessions and in any and substitutions and renewals to | | |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. | | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | |
| I hereby acknowledge th by fine or imprisonment of | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 not more than five (5) years, or both. | |
| LEGAL NAME OF INVEN | TOR | |
| Inventor: Hikari TAJIM | Date: Jan. 14, 2016 | |
| Signature: Hikari Tajim | Φ | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 037555 FRAME: 0820

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Invention | SEMICONDUCTOR MEMORY DEVICES | |
|---|--|--|
| As the below named inventor, I hereby declare that: | | |
| This declaration 🔀 | The attached application, or | |
| | United States application or PCT international application number filed on | |
| The above-identified application was made or authorized to be made by me. | | |
| I believe that I am | I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. | |
| WHEREAS, KABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; | | |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. | | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | |
| I hereby acknow by fine or imprisor | wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both. | |
| LEGAL NAME O | | |
| Inventor: Takas | thi IZUMIDA Date: Jan. 14, 2016 | |
| Signature: | Takashi Soumida | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

1048000466

PATENT REEL: 037555 FRAME: 0821