

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4398820

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KOJI NII	08/06/2014
SHIGEKI OHBAYASHI	08/06/2014
YASUMASA TSUKAMOTO	08/06/2014
MAKOTO YABUUCHI	08/06/2014
RECEIVING PARTY DATA	
Name:	RENESAS ELECTRONICS CORPORATION
Street Address:	2-24, TOYOSU 3-CHOME
City:	KOUTOU-KU, TOKYO
State/Country:	JAPAN
Postal Code:	135-0061
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15586870
CORRESPONDENCE DATA	
Fax Number:	(703)836-7419
<i>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.</i>	
Phone:	7038366620
Email:	beverly.caraway@bipc.com
Correspondent Name:	BUCHANAN INGERSOLL & ROONEY P.C.
Address Line 1:	P.O. BOX 1404
Address Line 4:	ALEXANDRIA, VIRGINIA 22313-1404
ATTORNEY DOCKET NUMBER:	1009683-001029
NAME OF SUBMITTER:	BEVERLY A. CARAWAY
SIGNATURE:	/Beverly A. Caraway/
DATE SIGNED:	05/04/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 6	
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PATENT

REEL: 042242 FRAME: 0856

COMBINED DECLARATION AND ASSIGNMENT (JOINT)

As one of the below named inventors, I hereby declare that this Declaration is directed to:

- (1) ☒ U.S. application number or PCT application number 14/263,397 filed on April 28, 2014, entitled SEMICONDUCTOR MEMORY DEVICE FOR STABLY READING AND WRITING DATA; or
- (2) ☐ the attached application entitled SEMICONDUCTOR MEMORY DEVICE FOR STABLY READING AND WRITING DATA.

DECLARATION

As one of the below named inventors, I further declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

THIS ASSIGNMENT, by the undersigned inventors (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in the application for Letters Patent of the United States identified above;

WHEREAS, Renesas Electronics Corporation, a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 100-6334 Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all

applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

<u>August 6, 2014</u> Date	<u>Koji Nii</u> Name	<u>Koji Nii</u> Signature
<u> </u> Date	<u>Shigeki OHBAYASHI</u> Name	<u> </u> Signature
<u> </u> Date	<u>Yasumasa TSUKAMOTO</u> Name	<u> </u> Signature
<u>August 6, 2014</u> Date	<u>Makoto YABUUCHI</u> Name	<u>Makoto Yabuuchi</u> Signature

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applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full and of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

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_____	Koji Nii	_____
Date	Name	Signature
August 6, 2014	Shigeki OHBAYASHI	<i>Shigeki Ohbayashi</i>
_____	Name	Signature
_____	Yasunasa TSUKAMOTO	_____
Date	Name	Signature
_____	Makoto YABUUCHI	_____
Date	Name	Signature

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Date	Name	Signature
August 6, 2014	Yasumasa TSUKAMOTO	<i>Yasumasa Tsukamoto</i>
Date	Name	Signature
_____	Makoto YABUUCHI	_____
Date	Name	Signature