OMB No. 0651-0027 (exp. 04/30/2015)	10/31/2013 ARTMENT OF COMMERCE S Patent and Trademark Office
10/25/15 PA	103663319
To the Director of the U.S. Patent and Trebandaria	new address(es) below.
1. Name of conveying party(jes)	2. Name and address of receiving party(ies)
(OCT 25 2013 &)	Name: Renesas Electronics Corporation
Tomoki Yasukawa	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes N	
3. Nature of conveyance/Execution Date(s): Execution Date(s) August 8, 2013	Street Address: 1753, Shimonumabe, Nakahara-ku
Assignment Merger	
Security Agreement Change of Name	City: Kawasaki-shi
Joint Research Agreement	State: Kanagawa
Government Interest Assignment	Country: Japan Zip:
Executive Order 9424, Confirmatory License	Zip.
Other	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s):	document serves as an Oath/Declaration (37 CFR 1.63).
A. Patent Application No.(s)	B. Patent No.(s)
14/061,605	
Additional numbers a	
5. Name and address to whom correspondence concerning document should be mailed:	IK Intal number of applications and natonts
	6. Total number of applications and patents
	involved: 1
Name: Sean McGinn, Esq.	
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817 Phone Number: 703 761 4100	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
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Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817 Phone Number: 703 761 4100 Docket Number: R126272US01	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number 50-0481(deficiencies only)
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817 Phone Number: 703 761 4100 Docket Number: R126272US01 Email Address: admin@mcginniplaw.com 9. Signature: Signature	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number 50-0481(deficiencies only) Authorized User Name Sean M. McGinn
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817 Phone Number: 703 761 4100 Docket Number: R126272US01 Email Address: admin@mcginniplaw.com 9. Signature: Sean McGinn, Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number Sean M. McGinn October 25, 2013 Date Total number of pages including cover
Name: Sean McGinn, Esq. Internal Address: McGinn Intellectual Property Law Group, PLLC Street Address: 8321 Old Courthouse Road Suite 200 City: Vienna State: Virginia Zip: 22182-3817 Phone Number: 703 761 4100 Docket Number: R126272US01 Email Address: admin@mcginniplaw.com 9. Signature: Sean McGinn, Esq. Name of Person Signing	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number 50-0481(deficiencies only) Authorized User Name Sean M. McGinn October 25, 2013 Date Total number of pages including cover sheet, attachments, and documents:
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Docket No.: REN.145 Only After Sept 16, 2012

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, Renesas Electronics Corporation of Kanagawa, Japan, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by

consideration all papers deemed net the assignee.	n in the application to the assignee, its successors and assigns; and I/we will execute without further bessary by the assignee in connection with the United States application when called upon to do so t
(Legalization not required for record	ing but is prima facie evidence of execution under 35 USC 261)
As the below named inventor, I here	
This assignment with declaration is directed to:	X The attached application, or
	United States Application or PCT International Application Number
	filed on
The application is entitled:	
	SEMICONDUCTOR DEVICE AND CLOCK CORRECTION METHOD
The above identified application was	made or was authorized to be made by me.
I believe that I am the original invent	or or an original joint inventor of a claimed invention in the application.
	contents of the application for which this assignment with declaration is being submitted.
	the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.
	false statement made in this assignment with declaration is available at 10 400 and 1000
Authorization To Permit Access To	Application by Participating Office
property offices in which a foreign apparent application. See 37 CFR 1.14(c	by grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office ty Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual plication claiming priority to the above-identified application is filed access to the above-identified and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or nich a foreign application claiming priority to the above-identified application is filed to have
119(a)-(d) if a copy of the foreign app	access will be provided to a copy of the application—as—filed with respect to: 1) the above—2) any foreign application to which the above—identified application claims priority under 35 USC lication that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above—y U.S. application—as—filed from which benefit is sought in the above—identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

PATENT REEL: 031591 FRAME: 0838 Legal Name of Inventor Tomoki YASUKAWA

Inventor's Signature Tomoki Yasukawa Date August 8, 2013

Page 2 of 2

PATENT REEL: 031591 FRAME: 0839