504910247 05/11/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4956991

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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JUNKO KIMURA	07/05/2013
HIROHIKO HAYAKAWA	06/29/2013

RECEIVING PARTY DATA

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State/Country:	JAPAN
Postal Code:	135-0061

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15642939

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	067237-1097
NAME OF SUBMITTER:	RENELL FEIMSTER FOR TOMOKI TANIDA
SIGNATURE:	/Renell Feimster for Tomoki Tanida/
DATE SIGNED:	05/11/2018

Total Attachments: 4

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PATENT 504910247 REEL: 045776 FRAME: 0595

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> PATENT REEL: 045776 FRAME: 0596

2120234

Docket No.: 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 the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261) As the below named inventor, I hereby declare that: |X| The attached application, or This assignment with declaration is directed to: United States Application or PCT International Application Number filed on___ The application is entitled: SEMICONDUCTOR DEVICE AND BATTERY VOLTAGE MONITORING DEVICE The above identified application was made or was 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. I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted. I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Authorization To Permit Access To Application by Participating Office If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the aboveidentified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the aboveidentified patent application, and 3) any 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: 045776 FRAME: 0597

Legal Name of Inventor	Yoshitaka MUHA	MOTO				
Inventor's Signature	Kishitalea Murumata		Date	Date July 1 , 2013		
Legal Name of Additional I	inventor, if Any	Junko KIMURA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Inventor's Signature	Junko	Kimura	Date	Jaly 5	2013	
Legal Name of Additional I	inventor, If Any	Hirohiko HAYAKAWA				
Inventor's Signature			Date			

PATENT REEL: 045776 FRAME: 0598

Docket No.: Only After Sept 16, 2012

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.83)

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 the assignee.

are assigned.			
(Legalization not required for recording	g but is	prima facie evidence of execution under 35 USC 261)	
As the below named inventor, I hereby	declar	e that:	
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:			
SEMICO	NDUC	TOR DEVICE AND BATTERY VOLTAGE MONITORING DEVICE	
	oran	was authorized to be made by me. original joint inventor of a claimed invention in the application. of the application for which this assignment with declaration is being submitted.	
I am aware of the duty to disclose to t	he Offi	ce all information known to me to be material to patentability as defined in 37 CFR 1.56.	
I hereby acknowledge that any willful for imprisonment of not more than five		itement made in this assignment with declaration is punishable under 18 USC 1001 by fine rs, or both.	
Authorization To Permit Access To /	Applicat	ion by Participating Office	
(JPO), the Korean Intellectual Propert property offices in which a foreign app patent application. See 37 CFR 1.14(c	y Office lication) and (h	s the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual claiming priority to the above-identified application is filed access to the above-identified). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or preign application claiming priority to the above-identified application is filed to have	
In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application—as—filed with respect to: 1) the above—identified patent application—as—filed, 2) any foreign application to which the above—identified application claims priority under 35 USC 119(a)—(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above—identified patent application, and 3) any U.S. application—as—filed from which benefit is sought in the above—identified patent application.			

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

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Inventor's Signature		Date				*****
Legal Name of Additional Inventor, If Any	Junko KIMURA					······
Inventor's Signature		Date		,		anggi
Legal Name of Additional Inventor, If Any	Hirohika HAYAKAWA					
Inventor's Signature	. Uzwakawa	Date	Oune	Z9.	201	<u> 2</u>

PATENT REEL: 045776 FRAME: 0600