

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hisao HARIGAI	01/17/2011
Toshihide TSUBOI	01/17/2011
RECEIVING PARTY DATA	
Name:	RENESAS ELECTRONICS CORPORATION
Street Address:	1753 Shimonumabe, Nakahara-ku
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State/Country:	JAPAN
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13072262
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Total Attachments: 1 source=ASSIGNMENT_EXECUTED#page1.tif	

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Assignment

Whereas, I/We, Hisao HARIGAI and Toshihide TSUBOI of Kanagawa, Japan,
respectively

hereinafter called assignor(s), have invented certain improvements in
MEMORY DEVICE, MEMORY SYSTEM AND MICROCONTROLLER INCLUDING
MEMORY DEVICE, AND MEMORY CONTROL DEVICE

and executed an application for Letters Patent of the United States of America therefor on
January 17, 2011 ; and

Whereas, Renesas Electronics Corporation
1753 Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa
211-8668, 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 the right to claim priority under 35 U.S.C. §119, and I/we request the Director – 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.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 13/072,262 and Confirmation number 5621 , filed March 25, 2011) the filing date and application number of said application when known.

Date: Hisao Harigai January 17, 2011
s/ Hisao HARIGAI

Date: Toshihide Tsuboi January 17, 2011
s/ Toshihide TSUBOI

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)