

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Takuya HIROTA	09/18/2009
Takao YANAGIDA	09/18/2009
RECEIVING PARTY DATA	
Name:	NEC Electronics Corporation
Street Address:	1753 Shimonumabe, Nakahara-ku
City:	Kawasaki, Kanagawa
State/Country:	JAPAN
Postal Code:	211-8668
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12603879
CORRESPONDENCE DATA	
Fax Number:	(202)293-7860
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202-293-7060
Email:	ahoward-agu@SUGHRUE.COM
Correspondent Name:	SUGHRUE MION, PLLC
Address Line 1:	2100 PENNSYLVANIA AVENUE, N.W.
Address Line 2:	SUITE 800
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20037
ATTORNEY DOCKET NUMBER:	Q115334
NAME OF SUBMITTER:	Howard L. Bernstein
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PATENT
REEL: 023410 FRAME: 0187

Assignment

Whereas, I/We, Takuya HIROTA and Takao YANAGIDA

of c/o NEC Electronics Corporation, 1753 Shimonumabe, Nakahara-ku, Kawasaki,
Kanagawa 211-8668, Japan

hereinafter called assignor(s), have invented certain improvements in
SEMICONDUCTOR MEMORY DEVICE

and executed an application for Letters Patent of the United States of America therefor on
September 18, 2009; and

Whereas,

NEC 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 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.

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 12/603,879 and Confirmation number
7415, filed October 22, 2009) the application
number and filing date of said application when known.

Date: September 18, 2009

s/ Takuya HIROTA

Date: September 18, 2009

s/ Takao YANAGIDA

Witnesses:

Date: September 18, 2009

s/

Date: September 18, 2009

s/

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