### 501760229 12/19/2011

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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Tomohisa Miyamoto	12/15/2011

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## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13329372

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Total Attachments: 2

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REEL: 027406 FRAME: 0518

# **ASSIGNMENT**

	In consideration of the sum of One consideration paid to each of the under	Dollar (\$1.00) and other good and valuable signed			
Insert Name(s) of		7			
Inventor(s)	2. Tomohisa MIYAMOTO	8.			
	3.	9.			
		10.			
	5.	11			
Insert	the undersigned hereby sell(s) and assi	12			
Name(s) of Assignee(s) &	SAMSUNG EL	ECTRONICS CO., LTD.			
4.33	416, Maetan-dong, Y				
Address(es)	or suwon-si, Gyeonggi-	do 442-742, Republic of Korea			
Title of	(hereinafter designated as the Assigned States as defined in 35 USC 100, in the	the entire right, title and interest for the United invention known as			
Invention	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF				
	OPERATING A NONVOLATILE ME	MORY DEVICE			
Date of Signing of	ding of				
Application	the undersigned on December 15, 2011				
	application and any continuing, division	l papers necessary in connection with this nal or reissue applications thereof and also to ction with such applications as the Assignee may			
	interference which may be declared co	I papers necessary in connection with any neerning this application or continuing, division or need assignee in every way possible in obtaining interference.			
		l papers and documents and perform any act which laims or provisions of the International Convention similar agreements.			
	The undersigned agree(s) to perform all a grant of a valid United States patent t	Il affirmative acts which may be necessary to obtain to the Assignee.			

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The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned

name(s). Date December 15, 2011 Signature of Inventor Date 2.4/, 12.17 Signature of Inventor Franchisa Miya ma To
Tomohisa MIYAMOTO Date \_\_\_\_\_ Signature of Inventor \_\_\_\_ Signature of Inventor Signature of Inventor Date Signature of Inventor (Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.) Witness..... Applicant Reference No. WJ-210814-US

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