

# PATENT ASSIGNMENT

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CONVEYING PARTY DATA	
Name	Execution Date
Chan-kyung Kim	08/16/2012
Hong-sun Hwang	08/16/2012
Chul-woo Park	08/16/2012
Sang-beom Kang	08/16/2012
Hyung-rok Oh	08/31/2012
RECEIVING PARTY DATA	
Name:	Samsung Electronics Co., Ltd.
Street Address:	129, Samsung-ro, Yeongtong-gu,
City:	Suwon-si, Gyeonggi-do
State/Country:	KOREA, REPUBLIC OF
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13562871
CORRESPONDENCE DATA	
Fax Number:	5166928889
Phone:	516-692-8888
Email:	mail@chauiplaw.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	F. CHAU & ASSOCIATES, LLC
Address Line 1:	130 WOODBURY ROAD
Address Line 4:	WOODBURY, NEW YORK 11797
ATTORNEY DOCKET NUMBER:	8729-363/RDR
NAME OF SUBMITTER:	Frank Chau
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# ASSIGNMENT

DOCKET NO.: 8729-363 (SS-39300-US)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

**ASSIGNEE:** Samsung Electronics Co., Ltd.

**ADDRESS:** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742,  
Republic of Korea

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

**TITLE: DATA READ CIRCUIT, A NON-VOLATILE MEMORY DEVICE HAVING THE SAME, AND A METHOD OF READING DATA FROM THE NON-VOLATILE MEMORY DEVICE**

invented by me (*if only one inventor is named below*) or us (*if more than one inventor is named below*) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 8729-363 (SS-39300-US), or is more particularly identified as:

- ☐ executed on even date herewith, or  
☒ Serial No. 13/562,871 filed in the U.S. Patent & Trademark Office on July 31, 2012, or  
☐ executed on \_\_\_\_\_,

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said **SAMSUNG ELECTRONICS CO., LTD.**, my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request Frank Chau, Reg. No. 34,136, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

<u>INVENTOR(S)</u>	<u>Date Signed</u>
1) <u>Chan-kyung Kim</u> Chan-kyung Kim	<u>8.16.2012</u>
2) <u>Hong-sun Hwang</u> Hong-sun Hwang	<u>8.16.2012</u>
3) <u>Chul-woo Park</u> Chul-woo Park	<u>8.16.2012</u>
4) <u>Sang-beom Kang</u> Sang-beom Kang	<u>8.16.2012</u>
5) <u>Hyung-rok Oh</u> Hyung-rok Oh	<u>Aug 31, 2012</u>

