PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Eui Cheol Lim	10/23/2009

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	416, Maetan-dong,
Internal Address:	Yeongtong-gu, Suwon-si
City:	Gyeonggi-do
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12613756

CORRESPONDENCE DATA

Fax Number: (516)692-8889

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 516-692-8888

Email: guarascio@CHAUIPLAW.COM
Correspondent Name: F. CHAU & ASSOCIATES, LLC
Address Line 1: 130 WOODBURY ROAD

Address Line 4: WOODBURY, NEW YORK 11797

ATTORNEY DOCKET NUMBER: 8137-132/RJN

NAME OF SUBMITTER: Frank Chau

Total Attachments: 2

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OF \$40.00 1261373

PATENT REEL: 023481 FRAME: 0824

ASSIGNMENT DOCKET NO.: 8137-132 (SOV-000669-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: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 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: SEMICONDUCTOR MEMORY DEVICE AND METHOD OF OPERATING THE SEMICONDUCTOR 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.: 8137-132 (SOV-000669-US), or is more particularly identified as:

	executed on even date herewith, or
	Scrial No filed in the U.S. Patent & Trademark Office on, or
	executed on, and to all United States patents which may be granted thereon and therefore, and in and to
all cer examinatent my Asterms,	tificates of corrections, divisions, continuations, continuations-in-part, reissued and re- ned patents, and to any extensions thereof, said interest being the entire ownership of the when granted, to be held and enjoyed by said SAMSUNG ELECTRONICS CO., LTD. , signee, its successors, assigns or other legal representatives, to the full end of the term, or any extension or renewal thereof, for which said patent or patents may be granted, as
	nd entirely as the same would have been held and enjoyed by me or us if this assignment, d 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 <u>Frank Chau</u>, <u>Reg. No. 34,136</u>, 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.

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

INVENTOR(S)

Date Signed

Eni Cheol Lim

23/10/2008

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