502025522 08/15/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sua KIM	07/13/2012
Jin Ho KIM	07/18/2012
Chulwoo PARK	07/13/2012

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	
Postal Code:	443-742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13586018

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	8836-802
NAME OF SUBMITTER	Frank Chau

Total Attachments: 3

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> PATENT REEL: 028789 FRAME: 0444

■OP \$40.00 13586018

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ASSIGNMENT DOCKET NO.: 8836-802 (ID-210972-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:

Samsung Electronics Co., Ltd. ASSIGNEE:

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, ADDRESS:

Republic of Korea

sale and conveyance had not been made;

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:

SEMICONDUCTOR DEVICES INCLUDING A VERTICAL CHANNEL TITLE: TRANSISTOR AND METHODS OF FABRICATING THE SAME

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.: 8836-802 (ID-210972-US) or is more particularly identified as:

	executed on even date herewith, or		
***************************************	Serial No filed in the U.S. Patent & Trademark Office on, or		
and in all center examination	executed on		

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;

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,

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.

> PATENT REEL: 028789 FRAME: 0445

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
1) Da Gm	July 13 12
Sua Kim	
2) Jin Ho Kim	
3) <u>Chul Woo Park</u> Chulwoo Park	July 13 /12

REEL: 028789 FRAME: 0446

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

INVENTOR(S)	<u>Date Signed</u>
1) Sua Kim	
2) <u> </u>	01-18-2012
3)Cholwoo Park	

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PATENT RECORDED: 08/15/2012 REEL: 028789 FRAME: 0447