

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Sung-Ryul Kim</td><td>06/18/2010</td></tr> <tr><td>Jean-Ho Song</td><td>06/18/2010</td></tr> <tr><td>Jae-Hyoung Youn</td><td>06/18/2010</td></tr> <tr><td>O-Sung Seo</td><td>06/18/2010</td></tr> <tr><td>Byeong-Beom Kim</td><td>06/18/2010</td></tr> <tr><td>Je-Hyeong Park</td><td>06/18/2010</td></tr> <tr><td>Jong-In Kim</td><td>06/18/2010</td></tr> <tr><td>Jae-Jin Song</td><td>06/18/2010</td></tr> </tbody> </table>		Name	Execution Date	Sung-Ryul Kim	06/18/2010	Jean-Ho Song	06/18/2010	Jae-Hyoung Youn	06/18/2010	O-Sung Seo	06/18/2010	Byeong-Beom Kim	06/18/2010	Je-Hyeong Park	06/18/2010	Jong-In Kim	06/18/2010	Jae-Jin Song	06/18/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Samsung Electronics Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>416, Maetan-dong, Yeongtong-gu</td> </tr> <tr> <td>City:</td> <td>Suwon-si, Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	416, Maetan-dong, Yeongtong-gu	City:	Suwon-si, Gyeonggi-do	State/Country:	REPUBLIC OF KOREA										
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CORRESPONDENCE DATA																			
<p>Fax Number: (516)692-8889</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 516-692-8888</p> <p>Email: rodriguez@chauiplaw.com</p> <p>Correspondent Name: F. CHAU & ASSOCIATES, LLC</p> <p>Address Line 1: 130 WOODBURY ROAD</p> <p>Address Line 4: WOODBURY, NEW YORK 11797</p>																			
ATTORNEY DOCKET NUMBER:	8071-409 (OPP20092007US)																		

OP \$40.00 12821668

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PATENT
REEL: 024582 FRAME: 0682

NAME OF SUBMITTER:

Michael F. Morano

Total Attachments: 2

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ASSIGNMENT

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: THIN FILM TRANSISTOR SUBSTRATE AND MANUFACTURING METHOD THEREOF

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. 8071-409/mfm or is more particularly identified as:

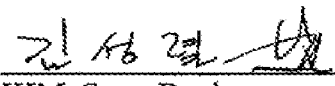

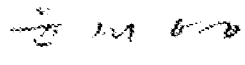
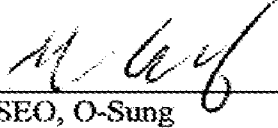
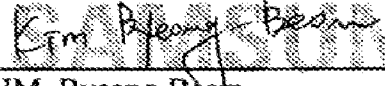
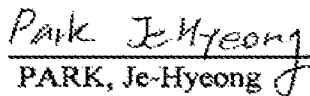
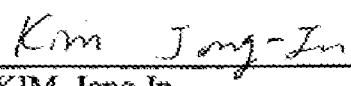
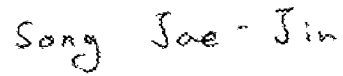
- ☐ executed on even date herewith, or
☐ Serial No. _____ filed in the U.S. Patent & Trademark Office on _____, or
☐ executed on _____

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, term s, 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></u> KIM, Sung-Ryul	<u>2010.6.18</u>
(2)	<u></u> SONG, Jean-Ho	<u>2010.6.18</u>
(3)	<u></u> YOUN, Jae-Hyoung	<u>2010.6.18</u>
(4)	<u></u> SEO, O-Sung	<u>2010.6.18</u>
(5)	<u></u> KIM, Byeong-Beom	<u>2010.6.18</u>
(6)	<u></u> PARK, Je-Hyeong	<u>2010.6.18</u>
(7)	<u></u> KIM, Jong-In	<u>2010.6.18</u>
(8)	<u></u> SONG, Jae-Jin	<u>2010.6.18</u>