

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Woo Seok Jeon</td><td>05/29/2008</td></tr><tr><td>Jung In Park</td><td>05/29/2008</td></tr><tr><td>Hi Kuk Lee</td><td>05/29/2008</td></tr></tbody></table>	Name	Execution Date	Woo Seok Jeon	05/29/2008	Jung In Park	05/29/2008	Hi Kuk Lee	05/29/2008	
Name	Execution Date								
Woo Seok Jeon	05/29/2008								
Jung In Park	05/29/2008								
Hi Kuk Lee	05/29/2008								
RECEIVING PARTY DATA									
Name:	Samsung Electronics Co., Ltd								
Street Address:	416, Maetan-dong								
City:	Yeongtong-gu, Suwon-si, Gyeonggi-do								
State/Country:	KOREA, REPUBLIC OF								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12200525</td></tr></tbody></table>	Property Type	Number	Application Number:	12200525					
Property Type	Number								
Application Number:	12200525								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	8054L-491								
NAME OF SUBMITTER:	Frank Chau								
Total Attachments: 2									
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OP \$40.00 12200525

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PATENT
REEL: 021458 FRAME: 0231

ASSIGNMENT

DOCKET NO.: 8054L-491 (LX4101US)

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: HALFTONE MASK, METHOD OF MANUFACTURING THE SAME, AND METHOD OF
MANUFACTURING AN ARRAY SUBSTRATE USING 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. _____, 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, 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. 22,150, 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:

INVENTOR(S)

Date Signed

Woo-Seok JEON
Woo-Seok JEON

5/29/2008

JUNG IN-PARK
Jung-In PARK

5/29/2008

Hi-Kuk LEE
Hi-Kuk LEE

5/29/2008

