

PATENT ASSIGNMENT

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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>Kwang-Chul JUNG</td> <td>01/14/2010</td> </tr> <tr> <td>Joo-Nyung JANG</td> <td>01/14/2010</td> </tr> <tr> <td>Hee-Seop KIM</td> <td>01/14/2010</td> </tr> <tr> <td>Chong-Chul CHAI</td> <td>01/14/2010</td> </tr> <tr> <td>Mee-Hye JUNG</td> <td>01/14/2010</td> </tr> <tr> <td>Hwa-Sung WOO</td> <td>01/14/2010</td> </tr> <tr> <td>Cheol SHIN</td> <td>01/14/2010</td> </tr> </tbody> </table>		Name	Execution Date	Kwang-Chul JUNG	01/14/2010	Joo-Nyung JANG	01/14/2010	Hee-Seop KIM	01/14/2010	Chong-Chul CHAI	01/14/2010	Mee-Hye JUNG	01/14/2010	Hwa-Sung WOO	01/14/2010	Cheol SHIN	01/14/2010
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RECEIVING PARTY DATA																	
Name:	SAMSUNG ELECTRONICS CO., LTD.																
Street Address:	416, Maetan-dong, Yeongtong-gu, Gyeonggi-do																
City:	Suwon-si																
State/Country:	REPUBLIC OF KOREA																
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>12701759</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12701759												
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Application Number:	12701759																
CORRESPONDENCE DATA																	
Fax Number:	(860)286-0115																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	860-286-2929																
Email:	usptopatentmail@cantorcolburn.com																
Correspondent Name:	CANTOR COLBURN, LLP																
Address Line 1:	20 Church Street																
Address Line 2:	22nd Floor																
Address Line 4:	Hartford, CONNECTICUT 06103																
ATTORNEY DOCKET NUMBER:	21C-0647																

OP \$40.00 12701759

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**PATENT
 REEL: 023909 FRAME: 0925**

NAME OF SUBMITTER:

Noah J. Hayward

Total Attachments: 3

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ASSIGNMENT

WHEREAS I, **Kwang-Chul JUNG** of #7115-4, Taepyeong 1-dong, Sujeong-gu, Seongnam-si, Gyeonggi-do, Korea, **Joo-Nyung JANG** of 102-102 Gyeongsan Woobang Mansion, #138-6, Jeongpyeong-dong, Gyeongsan-si, Gyeongsangbuk-do, Korea, **Hee-Seop KIM** of 110-304 Sinyeongtong Hyundai 1 Cha Apt., Banwol-dong, Hwaseong-si, Gyeonggi-do, Korea, **Chong-Chul CHAI** of 106-1902 LG Xi Apt., Yeomni-dong, Mapo-gu, Seoul, Korea, **Mee-Hye JUNG** of 824-1402 Daerim Jinheung Apt., Jeongja-dong, Jangan-gu, Suwon-si, Gyeonggi-do, Korea, **Hwa-Sung WOO** of 419-107 Jugong 4 Danji Apt., Maetan 1-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea and **Cheol SHIN** of 201-203 Unam Firstvill 2 Cha Apt., Neung-dong, Hwaseong-si, Gyeonggi-do, Korea, (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

ARRAY SUBSTRATE AND DISPLAY DEVICE HAVING THE SAME

which claims priority to Korean Application No. 2009-0012448 filed on February 16, 2009 and for which We are about to file an application for Letters Patent of the United States;

AND WHEREAS, **SAMSUNG ELECTRONICS CO., LTD** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of Korea, having a place of business at **416, Mactan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea** is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for

the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 2010. 01. 14

Kwang-Chul Jung L.S.
Kwang-Chul JUNG

Date: 2010. 01. 14

Joo-Nyung Jung L.S.
Joo-Nyung JANG

Date: 2010. 01. 14

Hee-Seop Kim L.S.
Hee-Seop KIM

Date: 2010. 01. 14

Choi, Chongchul L.S.
Chong-Chul CHAI



Date: 2010.01.14

Mee-Hye JUNG L.S.
Mee-Hye JUNG

Date: 2010. 1. 14

Hwa-Sung Woo L.S.
Hwa-Sung WOO

Date: 2010. 01. 14

Cheol SHIN L.S.
Cheol SHIN

