

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| Wang-Woo LEE | 06/17/2011 |
| Sang-Tae KIM | 06/17/2011 |
| Joon-Woo LEE | 06/17/2011 |
| Young-Chul PARK | 06/17/2011 |
| Young-Jun JIN | 06/17/2011 |
| Kyong Min KANG | 06/17/2011 |
| Young-Jin YOON | 06/17/2011 |
| Suck-Jun LEE | 06/17/2011 |
| O-Byoung KWON | 06/17/2011 |
| In-Ho YU | 06/17/2011 |
| Sang-Hoon JANG | 06/17/2011 |
| Min-Ki LIM | 06/17/2011 |
| Dong-Ki KIM | 06/17/2011 |
| Hong-Sick PARK | 06/17/2011 |

RECEIVING PARTY DATA

| | |
|--------------------------|---------------------------------|
| Name: | SAMSUNG ELECTRONICS CO., LTD. |
| Street Address: | 416, Maetan-dong, Yeongtong-gu, |
| Internal Address: | Gyeonggi-do, |
| City: | Suwon-si |
| State/Country: | REPUBLIC OF KOREA |

| | |
|--------------------------|-----------------------------|
| Name: | DONGWOO FINE-CHEM CO., LTD. |
| Street Address: | 740-30 Sinheung-dong, |
| Internal Address: | Jeollabuk-do, |
| City: | Iksan-si |
| State/Country: | REPUBLIC OF KOREA |

PROPERTY NUMBERS Total: 1

OP \$40.00 13168408

501577505

PATENT
REEL: 026506 FRAME: 0731

| Property Type | Number |
|--|------------------|
| Application Number: | 13168408 |
| <p>CORRESPONDENCE DATA</p> <p>Fax Number: (860)286-0115 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 8602862929 Email: pcurrie@cantorcolburn.com Correspondent Name: Cantor Colburn LLP Address Line 1: 20 Church Street Address Line 2: 22nd Floor Address Line 4: Hartford, CONNECTICUT 06103</p> | |
| ATTORNEY DOCKET NUMBER: | PNK-0821 |
| NAME OF SUBMITTER: | Dana A. Gronbeck |
| <p>Total Attachments: 8 source=4GG2347#page1.tif source=4GG2347#page2.tif source=4GG2347#page3.tif source=4GG2347#page4.tif source=4GG2347#page5.tif source=4GG2347#page6.tif source=4GG2347#page7.tif source=4GG2347#page8.tif</p> | |

ASSIGNMENT

WHEREAS We, PARK, Hong-Sick of 202-1003, Hyundai I-Park Apt., Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea; LEE, Wang-Woo of B-307, Jeonwon Apt., Ingye-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Korea; KIM, Sang-Tae of 802-8, Sinheung-dong, Iksan-si, Jeollabuk-do, Korea; LEE, Joon-Woo of 105-1403, Daewoo Taechang Apt., Seosin-dong, Wansan-gu, Jeonju-si, Jeollabuk-do, Korea; PARK, Young-Chul of Dongsin Apt. 14-1304, Yeongdeung-dong, Iksan-si, Jeollabuk-do, Korea; JIN, Young-Jun of 802-8, Sinheung-dong, Iksan-si, Jeollabuk-do, Korea; KANG, Kyong-Min of 802-8, Sinheung-dong, Iksan-si, Jeollabuk-do, Korea; YOON, Young-Jin of 305-1001, Jinheung Double-park, Hoseong-dong, Deokjin-gu, Jeonju-si, Jeollabuk-do, Korea; LEE, Suck-Jun of 105-703, Jugong Apt., Songcheon-dong 2-ga, Deokjin-gu, Jeonju-si, Jeollabuk-do, Korea; KWON, O-Byoung of 102-1106, Samrye Jugong 1-danji, Samrye-ri, Samrye-eup, Wanju-gun, Jeollabuk-do, Korea; YU, In-Ho of 802-8, Sinheung-dong, Iksan-si, Jeollabuk-do, Korea; JANG, Sang-Hoon of 106-303, Daewoo Chowon Apt., Inhu 2-dong, Deokjin-gu, Jeonju-si, Jeollabuk-do, Korea; LIM, Min-Ki of 802-8, Sinheung-dong, Iksan-si, Jeollabuk-do, Korea; KIM, Dong-Ki of 261-27, Sajik 1-dong, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

ETCHANT, DISPLAY DEVICE AND METHOD FOR MANUFACTURING DISPLAY DEVICE USING THE SAME

which claims priority to Republic of Korea Application No. 10-2010-0128314, filed on December 15, 2010, 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 "ASSIGNEES"), a corporation organized and existing under the laws of the Country of **Republic of Korea** having a place of business at **416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea** and **DONGWOO FINE-CHEM CO., LTD.** (hereinafter referred to as "ASSIGNEES"), a corporation organized and existing under the laws of the Country of Republic of Korea having a place of business at **740-30 Sinheung-dong, Iksan-si,**

OPP20103394US

Jeollabuk-do, Korea, are 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 ASSIGNEES, 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 ASSIGNEES, an assignees of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEES, its successors and assigns; and We do hereby agree that the said ASSIGNEES, 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 ASSIGNEES, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEES 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: 2011 . 6 . 17

Park Hong Suck L.S.
PARK, Hong-Suck

OPP20103394US

Date: 2011.6.17

Lee Wang Woo L.S.
LEE, Wang-Woo

Date: _____

_____ L.S.
KIM, Sang-Tae

Date: _____

_____ L.S.
LEE, Joon-Woo

Date: _____

_____ L.S.
PARK, Young-Chul

Date: _____

_____ L.S.
JIN, Young-Jun

Date: _____

_____ L.S.
KANG, Kyong-Min

Date: _____

_____ L.S.
YOON, Young-Jin

Date: _____

_____ L.S.
LEE, Suck-Jun

Date: _____

_____ L.S.
KWON, O-Byoung

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Date: _____ YU, In-Ho _____ L.S.

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PARK, Hong-Sick L.S.

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Date: _____ L.S.
LEE, Wang-Woo

Date: 6/17/2011 L.S.
Sang-Tae Kim
KIM, Sang-Tae

Date: 6/17/2011 L.S.
Lee Joon-Woo
LEE, Joon-Woo

Date: 6/17/2011 L.S.
Parik Young-Chul
PARK, Young-Chul

Date: 6/17/2011 L.S.
Jon Young Jun
JIN, Young-Jun

Date: 6/17/2011 L.S.
KANG, Kyong-Min
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Date: 6/17/2011 L.S.
Yoon, Young-Jin
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Kwon, O-Byoung
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Date: 6/17/2011

Yu In-Ho L.S.
YU, In-Ho

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Jang Sang Hoon. L.S.
JANG, Sang-Hoon

Date: 6/17/2011

LIM Min-Ki L.S.
LIM, Min-Ki

Date: 6/17/2011

KIM Dong-KI L.S.
KIM, Dong-Ki

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