

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 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>Hun joo LEE</td><td>11/13/2006</td></tr><tr><td>Jin tae KIM</td><td>11/13/2006</td></tr><tr><td>Sung young JEONG</td><td>11/13/2006</td></tr><tr><td>Joon ho KIM</td><td>11/13/2006</td></tr><tr><td>Hee kyun LIM</td><td>11/13/2006</td></tr></tbody></table> | Name | Execution Date | Hun joo LEE | 11/13/2006 | Jin tae KIM | 11/13/2006 | Sung young JEONG | 11/13/2006 | Joon ho KIM | 11/13/2006 | Hee kyun LIM | 11/13/2006 | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>Samsung Electronics Co., Ltd.,</td></tr><tr><td>Street Address:</td><td>416, Maetan-dong, Yeongtong-gu</td></tr><tr><td>Internal Address:</td><td>Gyeonggi-do</td></tr><tr><td>City:</td><td>Suwon-si</td></tr><tr><td>State/Country:</td><td>KOREA, REPUBLIC OF</td></tr></table> | Name: | Samsung Electronics Co., Ltd., | Street Address: | 416, Maetan-dong, Yeongtong-gu | Internal Address: | Gyeonggi-do | City: | Suwon-si | State/Country: | KOREA, REPUBLIC OF | | | |
| Name: | Samsung Electronics Co., Ltd., | | | | | | | | | | | | |
| Street Address: | 416, Maetan-dong, Yeongtong-gu | | | | | | | | | | | | |
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| 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>11559924</td></tr></tbody></table> | Property Type | Number | Application Number: | 11559924 | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 11559924 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
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| NAME OF SUBMITTER: | Amy Bizon-Copp | | | | | | | | | | | | |

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PATENT
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Total Attachments: 2
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ASSIGNMENT

WHEREAS We, Hun-joo LEE of A-304 Samhyeong Park Mansion, Pyeongchang-dong, Jongno-gu, Seoul, Republic of Korea; Jin-tae KIM of 102-1802 Sinyeongtong Hyundai Apt., 860 Banwol-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; Sung-young JEONG of c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; Joon-ho KIM of 103-401 Mujigae Maeul Daellim Apt., 211 Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and Hee-kyun LIM of 147-602 Hwanggol Maeul Jugong 1-danji Apt., 955-1 Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

APPARATUS AND METHOD FOR ADJUSTING PH OF SOLUTION

which claims priority to Korean Application No. 10-2006-0001395, filed on January 5, 2006, and for which We are about to file an application for Letters Patent of the United States;

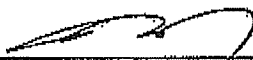
AND WHEREAS, Samsung Electronics Co., Ltd., (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, is desirous of acquiring an interest 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.

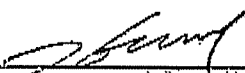
The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine 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: 2006.11.13



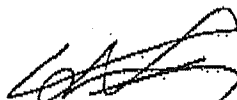
Hun-joo LEE L.S.

Date: 2006.11.13



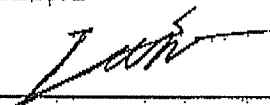
Jin-tae KIM L.S.

Date: 2006.11.13



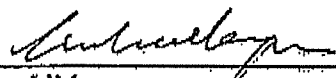
Sung-young JEONG L.S.

Date: 2006.11.13



Joon-ho KIM L.S.

Date: 2006.11.13



Hee-kyun LIM L.S.