**PATENT ASSIGNMENT**

**SUBMISSION TYPE:** CORRECTIVE ASSIGNMENT

**NATURE OF CONVEYANCE:**
Corrective Assignment to correct the country of the assignee previously recorded on Reel 020168 Frame 0104. Assignor(s) hereby confirms the Assignment of Assignor's Interest.

**CONVEYING PARTY DATA**

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<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Hoo-san LEE</td>
<td>11/12/2007</td>
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<tr>
<td>Hyun-jei KIM</td>
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<td>Hoon-sang OH</td>
<td>11/12/2007</td>
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**RECEIVING PARTY DATA**

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<tr>
<th>Name:</th>
<th>SAMSUNG ELECTRONICS CO., LTD.</th>
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</thead>
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<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>REPUBLIC OF KOREA</td>
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**PROPERTY NUMBERS Total: 1**

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<tr>
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<tr>
<td>Application Number</td>
<td>11946074</td>
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**CORRESPONDENCE DATA**

Fax Number: (202)293-7860

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 202-293-7060

Email: agoode@sughrue.com

Correspondent Name: Sughrue Mion, PLLC

Address Line 1: 2100 Pennsylvania Avenue, NW

Address Line 4: Washington, DISTRICT OF COLUMBIA 20037

**ATTORNEY DOCKET NUMBER:** Q104343

**NAME OF SUBMITTER:** Darryl Mexic

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500431388

**PATENT**

REEL: 020312 FRAME: 0532
**PATENT ASSIGNMENT**


**SUBMISSION TYPE:**  NEW ASSIGNMENT

**NATURE OF CONVEYANCE:**  ASSIGNMENT

**CONVEYING PARTY DATA**

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**RECEIVING PARTY DATA**

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

**PROPERTY NUMBERS** Total: 1

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**CORRESPONDENCE DATA**

Fax Number:   (202)293-7880  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*
Phone:  202-293-7060
Email:  pharris@sughruem.com
Correspondent Name:  SUGHRUE MION, PLLC
Address Line 1:  2100 PENNSYLVANIA AVENUE, N.W.
Address Line 2:  SUITE 800
Address Line 4:  WASHINGTON, DISTRICT OF COLUMBIA 20037

**ATTORNEY DOCKET NUMBER:**  Q104343

**NAME OF SUBMITTER:**  Darryl Mexic

Total Attachments: 1

PATENT
REEL: 020312 FRAME: 0534
Assignment

Whereas, We, Hoo-san LEE, Hyun-jei KIM, Sung-hoon CHOA and Hoon-sang OH of Osan-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, Seongnam-si, Republic of Korea, respectively, hereinafter called assignor(s), have invented certain improvements in METHOD OF INCREASING RECORDING DENSITY OF HARD DISC DRIVE AND CONTROLLING DEVICE THEREOF and executed an application for Letters Patent of the United States of America therefor on 12/November/2007; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtung-gu, Suwon-si, Gyeonggi-do, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefore;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged.

We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and i/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and i/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application as called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number ______ and Confirmation number ______ filed ______) the application number and filing date of said application when known.

Date: 12/November/2007

/s/ Hoo-san LEE

Date: 12/November/2007

/s/ Hyun-jei KIM

Date: 12/November/2007

/s/ Sung-hoon CHOA

Date: 12/November/2007

/s/ Hoon-sang OH

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §281)