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Woo-jong LEE  
Sang-on CHOI

2. Name and address of receiving party(ies):

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Republic of Korea

112919 U.S. PTO  
11/067208  
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Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: February 2, 2005

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4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: February 2, 2005

A. Patent Application No.(s)  
Not Yet Assigned

B. Patent No.(s)  
Unknown

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE MION, PLLC  
WASHINGTON OFFICE  
23373  
CUSTOMER NUMBER

6. Total number of applications and patents involved:  
1

7. Total fee (37 CFR 3.41): \$40.00  
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PATENT  
REEL: 016337 FRAME: 0015

## Assignment

Whereas, I/We, LEE, Woo-jong, CHOI, Sang-on both of Gyeonggi-do, Republic of Korea, hereinafter called assignor(s), have invented certain improvements in A GEOMAGNETIC SENSOR FOR INFORMING USERS WHETHER DETECTED AZIMUTH ANGLE IS ACCEPTABLE, AND A METHOD THEREOF and executed an application for Letters Patent of the United States of America therefor on February 2, 2005; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-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 therefor;

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

I/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 when called upon to do so by the assignee.

I/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: Feb. 02, 2005  
s/LEE, Woo-jong

Date: Feb. 02, 2005  
s/CHOI, Sang-on

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)