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To the Director of the U.S. Patent and Trademark Office: Please receive the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kyung-ho PARK
Woo-shik KANG
Young-hwan JUNG
Sun-shin AN
Seon-wook KIM

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

SAMSUNG ELECTRO-MECHANICS CO., LTD.
314, Maetan-dong,
Yeongtong-gu, Suwon-si,
Gyeonggi-do, Republic of Korea

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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: December 19, 2005

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: December 19, 2005

A. Patent Application No.(s)
Unknown

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: 017415 FRAME: 0474

Assignment

Whereas, We, Woo-shik KANG, Young-hwan JUNG, Sun-shin AN, Seon-wook KIM and Kyung-ho PARK, of Suwon-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, Namyangju-si, Republic of Korea, and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in ANTI-COLLISION METHOD AND SYSTEM USING OPTIMIZED BINARY SEARCH TREE and executed an application for Letters Patent of the United States of America therefor on _____; and

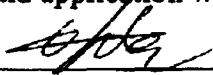
Whereas, SAMSUNG ELECTRO-MECHANICS CO., LTD., 314, ~~Mactan-dong~~, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

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

We, the above named assignors, 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 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 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.

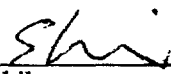
We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the application number and filing date of said application when known.

Date:


s/ PARK, Kyung-ho

Dec. 19. 2005

Date:


s/ KANG, Woo-shik

Dec. 19. 2005

Date:

s/ JUNG, Young-hwan

Date:

s/ AN, Sun-shin

Date:

s/ KIM, Seon-wook

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

Assignment

Whereas, We, Woo-shik KANG, Young-hwan JUNG, Sun-shin AN, Seon-wook KIM and Kyung-ho PARK, of Suwon-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, Namyangju-si, Republic of Korea, and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in ANTI-COLLISION METHOD AND SYSTEM USING OPTIMIZED BINARY SEARCH TREE and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, SAMSUNG ELECTRO-MECHANICS CO., LTD., 314, 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,

We, the above named assignors, 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 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 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.

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:

s/ PARK, Kyung-ho

Date:

s/ KANG, Woo-shik

Date:

s/ JUNG, Young-hwan

Young-hwan Jung Dec. 19, 2005

Date:

s/ AN, Sun-shin

Sun-shin An Dec. 19, 2005

Date:

s/ KIM, Seon-wook

Seon-wook Kim Dec. 19, 2005

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