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

## 1. Name of conveying party(ies):

Ho-Jin HA  
Sang-Chang CHA  
Woo-Jin HAN

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

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Republic of Korea112975 U.S. PTO  
11/094201

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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: March 28, 2005, March 25, 2005, and  
March 25, 2005Additional 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: March 28, 2005, March 25, 2005, and March 25, 2005

A. Patent Application No.(s)  
Not Yet AssignedB. Patent No.(s)  
UnknownAdditional numbers attached? ☐ Yes ☒ No5. 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

- ☒ Enclosed.  
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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

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PATENT  
REEL: 016431 FRAME: 0051

## Assignment

Whereas we, HA, Ho-Jin, CHA, Sang-Chang, and HAN, Woo-Jin of Seoul, Republic of Korea, Hwaseong-si, Republic of Korea, and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in METHOD AND APPARATUS FOR EFFECTIVELY COMPRESSING MOTION VECTORS IN MULTI-LAYER STRUCTURE and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; 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,

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: ✓ HA Jin March 28, 2005  
s/HA, Ho-Jin

Date: ✓  
s/CHA, Sang-Chang

Date: ✓  
s/HAN, Woo-Jin

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

## Assignment

Whereas we, HA, Ho-Jin, CHA, Sang-Chang, and HAN, Woo-Jin of Seoul, Republic of Korea, Hwaseong-si, Republic of Korea, and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in METHOD AND APPARATUS FOR EFFECTIVELY COMPRESSING MOTION VECTORS IN MULTI-LAYER STRUCTURE and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; 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,

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/HA, Ho-Jin

Date:

✓

s/CHA, Sang-Chang

March 25, 2005

Date:

✓

s/HAN, Woo-Jin

March 25, 2005

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