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Yung-lyul LEE  
Il-hong SHIN



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

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

Daeyang Foundation (Sejong University)  
98 Kunja-dong, Kwangjin-gu,  
Seoul, 143-747 Republic of Korea

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3. Nature of conveyance:

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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:

A. Patent Application No.(s)  
11/015,277

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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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.

*Jeffrey Schmidt* #41,574  
Darryl Mexia

Reg. No. 23,063

March 28, 2005

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PATENT  
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### Assignment

Whereas, I/We, LEE, Yang-lyul and SHIN, Il-Hong of Seoul, Republic of Korea, and Daejeon-city, Republic of Korea, respectively, hereinafter called assignor(s), have invented certain improvements in MOTION VECTOR ESTIMATION METHOD AND ENCODING MODE DETERMINING METHOD and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. and Daeyang Foundation (Sejong University), 416, Maetan-dong, Yeongtong-gu, Sewon-si, Gyeonggi-do, Republic of Korea, and 98 Kunja-dong, Kwangjin-gu, Seoul, 143-747 Republic of Korea (assignees), respectively, desire 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 assignees, their 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 assignees, their successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignees 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 11/015, 299 and Confirmation number \_\_\_\_\_, filed 20 December 2004) the application number and filing date of said application when known.

Date:

\_\_\_\_\_  
s/LEE, Yang-lyul

Date:

\_\_\_\_\_  
s/SHIN, Il-Hong

2 March 2005

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

## Assignment

Whereas, I/We, LEE, Yung-Iyul and SHIN, Il-Hong of Seoul, Republic of Korea, and Daejeon-city, Republic of Korea, respectively, hereinafter called assignor(s), have invented certain improvements in MOTION VECTOR ESTIMATION METHOD AND ENCODING MODE DETERMINING METHOD and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. and Daeyang Foundation (Sejong University), 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyonggi-do, Republic of Korea, and 98 Kunja-dong, Kwangjin-gu, Seoul, 143-747 Republic of Korea (assignees), respectively, desire 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 assignees, their 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 assignees, their successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignees 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 11/015, 299 and Confirmation number \_\_\_\_\_, filed 20 December 2004) the application number and filing date of said application when known.

Date: \_\_\_\_\_ 2 March 2005  
s/LEE, Yung-Iyul

Date: \_\_\_\_\_  
s/SHIN, Il-Hong

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