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original documents or copy thereof.

1. Name of conveying party(ies):

Dong-kyoo SHIN Yong-bin KIM
Jun-il KIM Soon-yong CHOI
Dong-il SHIN

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

Daeyang Foundation
98 Kunja-dong, Kwangjin-gu, Seoul, 143-747
Republic of Korea

SAMSUNG ELECTRONICS CO., LTD.

416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of KoreaAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒
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- ☐
- Other

Execution Date: December 1, 2004, December 6, 2004,
December 2, 2004, December 7, 2004 and December 2,
2004Additional 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 1, 2004,
December 6, 2004, December 2, 2004, December 7, 2004 and December 2, 2004A. Patent Application No.(s)
Not yet assignedB. Patent No.(s)
Not yet assignedAdditional 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

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1

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PATENT
REEL: 016076 FRAME: 0591

Assignment

Whereas, We, Dong-kyoo SHIN, Jun-il KIM, Dong-il SHIN, Yong-bin KIM, and Soon-yong CHOI of Seoul, Republic of Korea, Yangju-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, and Seoul, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in MOTION PICTURE FILE ENCRYPTION METHOD AND DIGITAL RIGHTS MANAGEMENT METHOD USING THE SAME and executed an application for Letters Patent of the United States of America therefor on 1 December 2004; and

Whereas, Daeyang Foundation and SAMSUNG ELECTRONICS CO., LTD., 98 Kunja-dong, Kwangjin-gu, Seoul, 143-747, Republic of Korea and 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, (assignees), 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,

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, confirmation number and filing date of said application when known.

Date:

Dec. 01. 2004. Dongkyoo Shin
s/Dong-kyoo SHIN

Date:

s/Jun-il KIM

Date:

s/Dong-il SHIN

Date:

s/Yong-bin KIM

Date:

s/ Soon-yong CHOI

Assignment

Whereas, We, Dong-kyoo SHIN, Jun-il KIM, Dong-il SHIN, Yong-bin KIM, and Soon-yong CHOI of Seoul, Republic of Korea, Yangju-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, and Seoul, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in MOTION PICTURE FILE ENCRYPTION METHOD AND DIGITAL RIGHTS MANAGEMENT METHOD USING THE SAME and executed an application for Letters Patent of the United States of America therefor on 6 December 2004; and

Whereas, Daeyang Foundation and SAMSUNG ELECTRONICS CO., LTD., 98 Kungja-dong, Kwangjin-gu, Seoul, 143-747, Republic of Korea and 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, (assignees), 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,

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, confirmation number and filing date of said application when known.

Date:

s/ Dong-kyoo SHIN

Date: 6 December 2004

s/ Jun-il Kim

Date:

s/ Dong-il SHIN

Date:

s/ Yong-bin KIM

Date:

s/ Soon-yong CHOI

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

Assignment

Whereas, We, Dong-kyoo SHIN, Jun-il KIM, Dong-il SHIN, Yong-bin KIM, and Soon-yong CHOI of Seoul, Republic of Korea, Yangju-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, and Seoul, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in MOTION PICTURE FILE ENCRYPTION METHOD AND DIGITAL RIGHTS MANAGEMENT METHOD USING THE SAME and executed an application for Letters Patent of the United States of America therefor on 2 December 2004; and

Whereas, Daeyang Foundation and SAMSUNG ELECTRONICS CO., LTD., 98 Kunja-dong, Kwangjin-gu, Seoul, 143-747, Republic of Korea and 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, (assignees), 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,

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, confirmation number and filing date of said application when known.

Date:

s/Dong-kyoo SHIN

Date:

s/Jun-il KIM

Date:

Dec. 02, 2004 s/Dong-il SHIN

Date:

s/Yong-bin KIM

Date:

Dec. 02, 2004 Soon-yong Choi
s/ Soon-yong CHOI

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

Assignment

Whereas, We, Dong-kyoo SHIN, Jun-il KIM, Dong-il SHIN, Yong-bin KIM, and Soon-yong CHOI of Seoul, Republic of Korea, Yangju-si, Republic of Korea, Seoul, Republic of Korea, Seoul, Republic of Korea, and Seoul, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in MOTION PICTURE FILE ENCRYPTION METHOD AND DIGITAL RIGHTS MANAGEMENT METHOD USING THE SAME and executed an application for Letters Patent of the United States of America therefor on 7 December 2004; and

Whereas, Daeyang Foundation and SAMSUNG ELECTRONICS CO., LTD., 98 Kunja-dong, Kwangjin-gu, Seoul, 143-747, Republic of Korea and 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, (assignees), desire to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

~~Notwithstanding the foregoing, the assignors hereby acknowledge and~~
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, confirmation number and filing date of said application when known.

Date: _____
s/Dong-kyoo SHIN

Date: _____
s/Jun-il KIM

Date: _____
s/Dong-il SHIN

Date: 7 December 2004
s/Yong-bin KIM

Date: _____
s/Soon-yong CHOI

~~It is not necessary for the assignors to execute this assignment if the assignor is a citizen of the United States and the invention is made by him or her.~~