| MODIFIED Form PTO-1595 I ADJUST COMMER (Rev. 1002) To the Director of the U.S. Patent and Trademark Office: Please record uncommended original documents or copy thereof. I. Name of conveying party(ies): Kyung-hoon CHA Dae-sik KIM Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Additional name(s) of conveying party(ies) attached? 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: March 23, 2006 A. Patent Application 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 D. S. V.S. DEPARTMENT OF COMMER U.S. Patent and Trademark Office: Please record uncomment of original documents or copy thereof. 2. Name and address of receiving party(ies): SAMSUNG ELECTRONICS CO., LTD. 4. 16, Mactan-dong, Yeongton, Suwon-si, Gyeonggi-do, Republic of Korea PROPERTY OF COMMER U.S. Patent And Additional name(s) & address(es) attached? Yes No Additional name(s) & address(es) attached? Yes No S. 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 T. Total fee (37 CFR 3.41): \$40.00 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name of conveying party(ies): Kyung-hoon CHA Dae-sik KIM 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 23, 2006 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 23, 2006 A. Patent Application 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 Vanish and address of receiving party(ies): SAMSUNG ELECTRONICS CO., LTD. 416, Mactan-dong, Yeongtong-legal, Suwon-si, Gyeonggi-do, Republic of Korea Additional name(s) & address(es) attached? □ Yes ☑ No Additional name(s) & address(es) attached? □ Yes ☑ No No B. Patent No.(s) Unknown Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional number of application is: March 23, 2006 A patent No.(s) Unknown Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 A patent No.(s) D patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: N |
| 1. Name of conveying party(ies): Kyung-hoon CHA Dae-sik KIM 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 23, 2006 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 23, 2006 A. Patent Application 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 Vanish and address of receiving party(ies): SAMSUNG ELECTRONICS CO., LTD. 416, Mactan-dong, Yeongtong-legal, Suwon-si, Gyeonggi-do, Republic of Korea Additional name(s) & address(es) attached? □ Yes ☑ No Additional name(s) & address(es) attached? □ Yes ☑ No No B. Patent No.(s) Unknown Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 Additional number of application is: March 23, 2006 A patent No.(s) Unknown Additional numbers attached? □ Yes ☑ No One of the application is: March 23, 2006 A patent No.(s) D patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: March 23, 2006 A patent No.(s) One of the application is: N |
| SAMSUNG ELECTRONICS CO., LTD. 416, Mactan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 960 |
| Additional name(s) of conveying party(ies) attached? |
| 3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 Additional number of applications and patents involved: □ Total fee (37 CFR 3.41): \$40.00 ☐ Enclosed. |
| 3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 Additional number of applications and patents involved: □ Total fee (37 CFR 3.41): \$40.00 ☐ Enclosed. |
| 3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 Additional number of applications and patents involved: □ Total fee (37 CFR 3.41): \$40.00 ☐ Enclosed. |
| ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 ☐ Total fee (37 CFR 3.41): \$40.00 ☐ Enclosed. |
| □ Security Agreement □ Change of Name □ Other Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application No.(s) |
| Dother Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 Additional name(s) & address(es) attached? □ Yes ☑ No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| Dother Execution Date: March 23, 2006 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: March 23, 2006 A. Patent Application 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 Additional name(s) & address(es) attached? □ Yes ☑ No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| Execution Date: March 23, 2006 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 23, 2006 A. Patent Application No.(s) Unknown Additional numbers attached? 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 Additional name(s) & address(es) attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): S40.00 Enclosed. |
| 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 23, 2006 A. Patent Application 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 B. Patent No.(s) Unknown 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| 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 23, 2006 A. Patent Application 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 B. Patent No.(s) Unknown 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| If this document is being filed together with a new application, the execution date of the application is: March 23, 2006 A. Patent Application No.(s) Unknown Additional numbers attached? Yes No Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE B. Patent No.(s) Unknown 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. |
| A. Patent Application No.(s) Unknown Additional numbers attached? S. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE B. Patent No.(s) Unknown 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. |
| 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 Unknown 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| Additional numbers attached? |
| 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. |
| concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. |
| SUGHRUE MION, PLLC WASHINGTON OFFICE 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. |
| washington office |
| |
| |
| 23373 |
| CUSTOMER NUMBER The USPTO is directed and authorized to charge all required |
| fees, except for the Issue Fee and the Publication Fee, to Deposit |
| Account No. 19-4880. Please also credit any overpayments to said Deposit Account. |
| 8. Deposit Account Number: |
| 19-4880 |
| (Attach duplicate copy of this page if paying by deposit account) |
| DO NOT USE THIS SPACE |
| 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 t |
| original document. |
| |
| Jany My i |
| Jany 1 7 ~ |
| April 3, 200 d3 2 |
| Darryl Mexic Reg. No. 23,063 Date |
| Total number of pages including cover sheet, attachments, and documents: 2 |
| Mail documents to be recorded with required cover sheet information to: |
| MAIL STOP ASSIGNMENT RECORDATION SERVICES |
| Director of the U.S. Patent and Trademark Office |
| P.O. Box 1450 Alexandria, VA 22313-1450 |
| TANDAGIRANG, YOU CONTRACT OF THE CONTRACT OF T |
| |
| <u></u> |
| 107/2006 FC: 40021 |

PATENT REEL: 017750 FRAME: 0179

Assignment

Whereas, We, CHA, Kyung-hoon, KIM, Dae-sik of Yongin-si, Republic of Korea, Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in 3D IMAGE DISPLAY DEVICE and executed an application for Letters Patent of the United States of America therefor on 23 March 2006; 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.

| vania Avenue, NW, | and request our attorneys SUGHRUE MION, PLLC of 2100 Washington, DC 20037-3213 to insert here in parentheses and Confirmation number, filed) the date of said application when known. |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2006.03.23 | Kyung from Cha |
| s/CHA, k | Cyung-hoon C |
| 2006.05.23 | KIMD/JESIK/5 |
| s/KIM, D | Dae-sik |
| | vania Avenue, NW, ation number ion number and filing |

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

PATENT REEL: 017750 FRAME: 0180

RECORDED: 04/03/2006