PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
|-----------------------|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Docket Number Q122223 should read Q122230 previously recorded on Reel 025635 Frame 0511. Assignor(s) hereby confirms the Assignment of Assignor's Interest. |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------|----------------|
| Jung-hye MIN | 12/24/2010 |
| Tammy LEE | 12/24/2010 |
| II-koo KIM | 12/24/2010 |

RECEIVING PARTY DATA

| Name: | SAMSUNG ELECTRONICS CO., LTD. |
|-------------------|---------------------------------|
| Street Address: | 416, Maetan-dong, Yeongtong-gu, |
| Internal Address: | Gyeonggi-do |
| City: | Suwon-si |
| State/Country: | REPUBLIC OF KOREA |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13006078 |

CORRESPONDENCE DATA

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Correspondent Name: Sughrue Mion, PLLC.
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| ATTORNEY DOCKET NUMBER: | Q122230 |
|-------------------------|-----------------------------------|
| NAME OF SUBMITTER: | Mussie Beyene (Patent Specialist) |

Total Attachments: 4

PATENT REEL: 025887 FRAME: 0077 DP \$40.00 13006078

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> PATENT REEL: 025887 FRAME: 0078

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Fax Server

TO: SUGHRUE MION, PLLC. COMPANY: 2100 PENNSYLVANIA AVE

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1



| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |

| | Name | Execution Date |
|--------------|------|----------------|
| Jung-hye MIN | | 12/24/2010 |
| Tammy LEE | | 12/24/2010 |
| II-koo KiM | | 12/24/2010 |
| II-NDO RAM | | |

RECEIVING PARTY DATA

| Name: | SAMSUNG ELECTRONICS CO., LTD. |
|-------------------|---------------------------------|
| Street Address: | 416, Maetan-dong, Yeongtong-gu, |
| Internal Address: | Gyeonggi-do |
| City: | Suwon-el Suwon-el |
| State/Country: | REPUBLIC OF KOREA |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13008078 |

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NAME OF SUBMITTER:

Mussie Beyene (Patent Specialist)

Total Attachments: 1

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PATENT REEL: 025887 FRAME: 0079

Assignment

| _ |
|---|
| Whereas, We, Jung-hye MIN of Suwon-si, Republic of Korea; Tammy LEE of Seoul, |
| Republic of Korea; and II-koo KIM of Osan-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in METHOD AND APPARATUS FOR ENCODING VIDEO BY USING DEBLOCKING FILTERING, AND METHOD AND APPARATUS FOR DECODING VIDEO BY USING DEBLOCKING FILTERING and executed an application for Letters Patent of the United States of America therefor on: and |
| |
| Whereas, SAMSUNG ELECTRONICS CO., LTD. of 416, Maetan-dong, Yeongtong-g |

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 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 all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, 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.

| | d request our attorneys SUGHRUE | |
|------------------|------------------------------------|-----------------------------------|
| | ashington, DC 20037-3213 to insert | here in parentheses |
| | and Confirmation number | |
|) the applicatio | n number, confirmation number and | d filing date of said application |
| when known. | | • |
| Date: | <u> </u> | 0. 12.24 |
| s/Jung-hye | MIN | |
| Date: Jammy | 20/0 | , 12.24 |
| Tammy ! | LEE | |
| Date: Mu | 7 2010 | .12,24 |
| s/II-koo K | JM | |

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