FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08A/REV03

Tab settings

01-29-2007

SEC.1837

S. DEPARTMENT OF COMMERCE Patent and Trademark Office

103367007

▼ ▼

| Tab settings • • • • • • • • • • • • • • • • • • • | |
|---|---|
| To the Director of the United States Patent and Trademark Of | ffice: Please record the attached original documents or copy thereof. |
| 1. Name of conveying party(ies): KIM, Tae-whan KIM, Young-ho KIM, Jae-ho | Name and address of receiving party(ies): Name: Samsung Electronics Co., Ltd. |
| JUNG, Jae-hun | Address: 416, Maetan-dong, Yeongtong-gu, |
| Additional names(s) of conveying party(ies) | |
| 3. Nature of conveyance: | |
| | |
| ☐ Security Agreement ☐ Change of Name | City: Suwon-si State/Prov.: Gyeonggi-do |
| ☐ Other | Country: Republic of Korea ZIP: |
| Execution Date: January 19, 2007 | Additional name(s) & address(es) ☐ Yes ☒ No |
| 4. Application number(s) or patent numbers(s): | |
| If this document is being filed together with a new application, | the execution date of the application is: |
| Patent Application No. Filing date | B. Patent No.(s) |
| 11/580,102 10/13/2006 | |
| 1/26/2007 DBYRNE 00000005 11580102 1 FC:8021 40.00 DP Additional numbers | ☐ Yes ☒ No |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: |
| Name: ADAM C. VOLENTINE | 7. Total fee (37 CFR 3.41):\$ 40.00 |
| Registration No. 33289 Address: VOLENTINE & WHITT, PLLC | |
| 11951 FREEDOM DRIVE, SUITE 1260 | ☐ Authorized to be charged to deposit account |
| 11701 TABLEON BRITE, SCITE 1200 | 8. Deposit account number: |
| City: RESTON State/Prov.: VA | 50-0238 |
| Country: USA ZIP: 20190 | (Attach duplicate copy of this page if paying by deposit account) |
| | T USE THIS SPACE |
| Statement and signature. To the best of my knowledge and belief, the foregoing information of the original document. | mation is true and correct and any attached copy is a true copy |
| | |
| ADAM C. VOLENTINE | JAN. 24, 2007 |

VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

ATTORNEY DOCKET NO. SEC. 1837

ASSIGNMENT

| | | consideration deration paid | to each of the u | | | | | | |
|---|---|--|--|---|---|--|---------------------------------------|--|---|
| Insert Name(s) of | 1. | Tae-whan | KIM | - | . ^{7.} _ | | | | |
| Inventor(s) | 2. | Young-ho | KIM | | _ 8 | | | | |
| | 3. | Jae-ho KI | IM. | | _ 9. <u></u> | ******* | | - | |
| | 4. | Jae-hun J | JUNG | | 10 | | | | |
| | 5. | Chong-seu | ing YOON | · · · · · · · · · · · · · · · · · · · | . 11 | | | | |
| | | | | | | | | | |
| Insert Name(s) of | the u | ndersigned her | reby sell(s) and | assign(s) 1 | io | · , , , , , , , , , , , , , , , , , , , | · · · · · · · · · · · · · · · · · · · | | |
| Assigueo(s) & | | | SAMSUNG | ELECTR | ONICS | CO. | LTD. | | |
| Address(cs) | of. | | 416, Maeta Suwon-si, | an-dona | . YAOT | artone | 1-011. | | |
| veda Less (cs) | VI - | | 30W011-21, | Gyeong | dr-go | , Kept | IDTIC | or kor | ea |
| Tuvention | en M | no Crysta ethod the | l Charge Ti reof, and W | Vrite/R | ead Or | nory D perati | evice on Co | , Fabr ntrol | ication Method |
| | M | ethod the | reof, and W | Vrite/R The | ead Or reof | perati | .on Co | ntrol | Method |
| Date of | M | ethod the | 1 Charge Ti reof, and b ation for patent | Vrite/R The | ead Or reof | perati | .on Co | ntrol | Method |
| Invention Date of Signing of Application | for w | ethod the | reof, and W | Vrite/R The in the Uni | ead Orreof | perati | .on Co | ntrol | Method |
| Date of Signing of | for withe un. The quapplic execution | ethod the nich an application and any and any and any | ation for patent Jai rec(s) to execute continuing, diving ments in cor | in the Uni 19, 2 e all paper isional or | ead Or reof tod State 2007 s nocess reissue a | os of An | on Co | ntrol as been e | Method xecuted by nis also to |
| Date of Signing of | for withe un. The unapplic executed deem. The uninterfereissus | ethod the nich an application and any to separate assumecessary or endersigned agreence which rethereof and to | ation for patent Jai rec(s) to execute continuing, diving ments in cor | in the Uni 19, 2 all paper isional or inection was all paper concerning the Assi | ead Or reof tod State 2007 s necess reissue a vith such s necess ng this a gnee in | os of Andray in compositions applications applications applications applications are possible applications. | on Co | as been e on with the cof and a the Assi | Method xecuted by nis also to gnee may division or |
| Date of Signing of | for withe until the until | nich an application and any to separate assumed assume | reof, and be ation for patent Jainee(s) to execute continuing, diversignments in consequent, and the declared to cooperate with | in the Uni 19, 2 all paper concerning the Assistant of | tod State 2007 s necess reissue a with such s necess ng this a gnee in rence. s and do or provis | erations of Andrews in complications of incomplications in the incomplication in the incompli | on Co | on with the cof and a the Assistantinuing. | Method xecuted by nis also to gnee may division or taining |

Page 1 of 2

VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

ATTORNEY DOCKET NO. SEC. 1837

The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

| Date Jan. 19, 2007 | Signature of Inventor Aluhan King |
|--------------------|--|
| Date 2009. 1.19 | Signature of Inventor Angulus Xoung-ho KXM |
| Date | Signature of Inventor 7/2 24 3 |
| Date | Signature of Inventor Jae-hun Jung |
| Date Jan. 19. 2007 | Signature of Inventor Chefig-soung XOON |
| Date | Signature of Inventor |

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

| Witness | | |
|---------|------|--|
| | | |
| | | |

Applicant Reference No. SIP0602110S

Witness...

Page 2 of 2

PATENT REEL: 018843 FRAME: 0557

RECORDED: 01/24/2007