#### 501969377 06/26/2012

# PATENT ASSIGNMENT

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| NATURE OF CONVEYANCE: | ASSIGNMENT     |  |

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| Name        | Execution Date |
|-------------|----------------|
| Yong Joo Jo | 12/23/2011     |

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## PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13533769 |

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Total Attachments: 2

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PATENT REEL: 028447 FRAME: 0427 OP \$40.00 13533769

| Attorney's Docket No  | For<br>For       | 627513-2 r: [X] U.S. and/or [] Foreign I r: [X] U.S. Application or [] U r: [] PCT Application : [X] Inventor(s) or [] Present                             | .S. Patent                   |
|---|------------------|--|------------------------------|
| To annuid annuid an a Calla annuar annuar                                     |                  | ENT OF INVENTION  o ASSIGNOR of the sum of One Dol   | low (\$1,00), the receipt of |
| which is hereby acknowledged  |                  |  | iai (\$1.00), the receipt of |
| ASSIGNORS:<br>(inventor(s) or person(s) or<br>entity(ies) who own the inventi | (1)<br>on)       | JO, Yong Joo (type or print name(s) of ASSI 633-1201, Naru Maeul Bando Bansong-dong, Hwaseong-si, Gyunggi-do 445-753, Korea (Address)  Korea (Nationality) |                              |
| hereby confirm that ASSI  | GNORS sell, a    | ssign and transfer to  |                              |
| ASSIGNEE:   |                  | SAMSUNG ELECTRO-MEC<br>(type or print name(s) of ASSI<br>314, Maetan 3-dong, Yeong<br>Suwon, Gyunggi-do 443-74<br>(Address)                                | GNEE(S)<br>gtong-gu,         |
|   |                  | (Nationality)  |                              |
| and the successors, assign  |                  | presentatives of the ASSIGNE one of the following)   | E                            |
| [X] the entire righ   |                  |  |                              |
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| United States and its terri   | _                | ·  |                              |
| (check the following box  | if foreign right | ts are also to be assigned)  |                              |
| [ ] and in all forei  | gn countries, i  | ncluding all rights to claim   |                              |
| entitled:   | d all improver   | nents which are disclosed in t   | ne invention                 |

(Assignment of Invention [16-3]-page 1 of 2)

PATENT REEL: 028447 FRAME: 0428

| (check and complete (a), (b), (c) or (d)) and which is found in  |
|--|
| (a) [ ] U.S. patent application executed on even date herewith   |
| (b) [ ] U.S. patent application executed on  |
| [X] To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the filing date and application number when it becomes known.  |
| (c) [ ] U.S. Application serial no filed on (d) [ ] International application no.  |
| (e) [ ] U.S. Patent no issued  |
| [] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.   |
| (also check (F) if foreign application(s) is also being assigned)  |
| (f) [ ] and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof   |
| ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;   |
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| IN WITNESS WHEREOF, I/We have hereunto set hand and seal this  |
| 23th day of December 2011 (date of signing).   |
| JO, Yong Joo Name of Assignor(s)   |
| Signature of ASSIGNOR(S)   |

(Assignment of Invention [16-3]--page 2 of 2)

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