

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NO SAN KWAK | 03/27/2015 |
| JI MIN KIM | 03/27/2015 |
| SHIN KIM | 03/27/2015 |
| KYUNG SHIK ROH | 03/27/2015 |
| JEA YUN SO | 03/27/2015 |
| SUK JUNE YOON | 03/27/2015 |
| JONG GAP LEE | 03/27/2015 |
| RECEIVING PARTY DATA | |
| Name: | SAMSUNG ELECTRONICS CO., LTD |
| Street Address: | 129, SAMSUNG-RO, YEONGTONG-GU |
| City: | SUWON-SI, GYEONGGI-DO |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 443-742 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14690807 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
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| ATTORNEY DOCKET NUMBER: | 2494.1234 |
| NAME OF SUBMITTER: | GREGORY W. HARPER |
| SIGNATURE: | / Gregory W. Harper / |
| DATE SIGNED: | 04/20/2015 |

PATENT

Total Attachments: 1

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~~(Insert Name(s) & Address(es) of ASSIGNEE(S))~~

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

(a) executed on :

(Insert date of execution of application, if not concurrent)

(b) filed on , To be assigned

Serial No. To be assigned:

Any registered attorney or patent agent of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

| | | |
|----|---------------------------------------|-------------|
| 1) | NO SAK KWAK No San KWAK | 27 Mar 2015 |
| 2) | Jimin Kim JI Min KIM | 27 Mar 2015 |
| 3) | Shin Kim Shin KIM | 27 Mar 2015 |
| 4) | KYUNG SHIK Roh Kyung Shik ROH | 27 Mar 2015 |
| 5) | JEAYUN SO Jea Yun SO | 27 Mar 2015 |
| 6) | Suk June YOON Suk June YOON | 27 Mar 2015 |
| 7) | JONG GAP LEE Jong Gap LEE | 27 Mar 2015 |

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