

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| Name | | Execution Date |
| JIN GU HEO | | 01/15/2014 |
| 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: | 14157127 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (202)434-1501 | |
| Phone: | 202-434-1500 | |
| Email: | nlord@s-n-h.com | |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | |
| Correspondent Name: | STAAS & HALSEY | |
| Address Line 1: | 1201 NEW YORK AVE., N.W. | |
| Address Line 2: | SUITE 700 | |
| Address Line 4: | WASHINGTON, DISTRICT OF COLUMBIA 20005 | |
| ATTORNEY DOCKET NUMBER: | 1911.1765 | |
| NAME OF SUBMITTER: | GENE M. GARNER, II, REG. 34,172 | |
| Signature: | /Gene M. Garner II/ | |
| Date: | 01/17/2014 | |
| Total Attachments: 1 source=Assignment#page1.tif | | |

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do 443-742
Republic of Korea

(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)

METHOD AND APPARATUS FOR DETECTING EDGE IN IMAGE

relating to International Patent Application PCT/JP _____ / _____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on : _____ (insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No. : _____

Any registered attorney 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.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agrees(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.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witnesses)

1) Jin Gu HEO 2/15/2014 _____
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____

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