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PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
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| DAE-WON KIM | 03/07/2014 |

RECEIVING PARTY DATA

| Name: | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE |
|-----------------|---|
| Street Address: | 161, GAJEONG-DONG, YUSEONG-GU, |
| City: | DAEJEON |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 305-700 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
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| Application Number: | 14224616 |

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Email: jpeters@s-n-h.com **Correspondent Name:** STAAS & HALSEY LLP

Address Line 1: 1201 NEW YORK AVENUE, NW

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005

| ATTORNEY DOCKET NUMBER: | 2407.1019 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | SANG CHUL KWON |
| SIGNATURE: | /Sang Chul Kwon/ |
| DATE SIGNED: | 03/28/2014 |

Total Attachments: 1

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PATENT REEL: 032552 FRAME: 0471

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U.S. ASSIGNMENT

S&E-1700

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))

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, 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)

SYSTEM AND METHOD FOR PROVIDING DIGITAL SIGNATURE BASED ON MOBILE TRUSTED MODULE

| relating to international Patent Application PCT/KR States was executed on even date herewith or, if n | and/or for which application for Letters Patent of the United of so executed, was: |
|---|---|
| (a) executed on; | (Insert date of execution of application, if not concurrent) |
| (b) filed on, Serial No; | Any registered attorney or 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. |
| substitute, reissue or reexamination application bas | ne United States granted on said application and any continuation, division, renewal, sed thereon, for the full term or terms for which the said Letters Patent(s) may be actively, hereinafter, "said application(s) and Letters Patent(s)"). |
| to do all acts which the ASSIGNEE may deem neo for said invention, including in the preparation and a interference, reissue, reexamination, or public use declared in relation to same, such acts to include b | ed by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, bessary, desirable or expedient, for securing, maintaining and enforcing protection prosecution of said application(s) and the issuance of said Letters Patent(s), in any proceeding, and in any litigation or other legal proceeding which may arise or be out not be limited to executing all papers, including separate assignments and orn testimony, and obtaining and producing evidence. |
| IN WITNESS WHEREOF, the undersigned inve (Typed Name & Signeture of Inventor(s)) | entor(s) has (have) affixed his/her/their signature(s). (Date) (Typed Name & Signature of Witness(es)) |
| 1) KiM, Dae-Won | Mar. 7, 2014 Dagwan Kim, 3 |
| | |

PATENT REEL: 032552 FRAME: 0472

RECORDED: 03/28/2014