503410571 07/28/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3457206

| SUBMISSION TYPE: CORRECTIVE | | CORRECTIVE ASSIGNMENT |
|-----------------------------|--------------------|--|
| NATU | JRE OF CONVEYANCE: | Corrective Assignment to correct the SECOND ASSIGNEE TO SPECIFY AGENCY FOR DEFENSE DEVELOPMENT previously recorded on Reel 029519 Frame 0972. Assignor(s) hereby confirms the EXECUTED ASSIGNMENT. |
| | | |

CONVEYING PARTY DATA

| Name | Execution Date |
|---|----------------|
| ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE | 10/29/2012 |

RECEIVING PARTY DATA

| Name: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUT | |
|--|-----------------------------------|
| Street Address: | 161 GAJEONG-DONG, YUSEONG-GU |
| City: | DAEJEON |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 305-700 |
| Name: | AGENCY FOR DEFENSE DEVELOPMENT |
| Street Address: | 160 BUGYUSEONG-DAERO, 488BEON-GIL |
| Internal Address: | SUNAM-DONG, YUSEONG-GU |
| City: | DAEJEON |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 305-152 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13268299 |

CORRESPONDENCE DATA

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Email: arichards@s-n-h.com

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Address Line 1: 1201 NEW YORK AVE, NW

Address Line 2: SUITE 700

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER: 2117.1090

PATENT REEL: 036192 FRAME: 0043

503410571

| NAME OF CURNITTER. | CARRIEL DIAZ | |
|---|----------------|--|
| NAME OF SUBMITTER: | GABRIEL DIAZ | |
| SIGNATURE: | /Gabriel Diaz/ | |
| DATE SIGNED: | 07/28/2015 | |
| Total Attachments: 5 | | |
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PATENT REEL: 036192 FRAME: 0044

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Sang Gi HONG | 08/18/2011 |
| Nae Soo KIM | 08/18/2011 |
| Yong Hyun KIM | 08/18/2011 |
| Noh Bok LEE | 08/18/2011 |

RECEIVING PARTY DATA

| Name: | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE |
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| Street Address: | 161 Gajeong-dong, Yuseong-gu |
| City: | Daejeon |
| State/Country: | REPUBLIC OF KOREA |
| Postal Code: | 305-700 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13268299 |

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| ATTORNEY DOCKET NUMBER: | 2117.1090 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | J. Randall Beckers |

Total Attachments: 1

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PATENT REEL: 036192 FRAME: 0045

120101190 57,25

Docket No. 2117.1090

ASSIGNMENT

WHEREAS, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, a corporation of Korea, residing at 161 Gajeong-dong, Yuseong-gu, Daejeon, Republic of Korea, 305-700 (hereinafter, "ASSIGNOR"), is the sole and exclusive owner by assignment (Reel: 027047, Frame: 0084) of the following U.S. patent application:

U.S. Serial No. 13/268,299, titled: APPARATUS AND METHOD FOR CONTROLLING SENSOR NODE USING VIBRATION SENSOR AND MAGNETIC SENSOR, filed October 7, 2011.

WHEREAS, **AGENCY FOR DEFENSE DEVELOPMENT**, a corporation of Korea, residing at 160 Bugyuseong-daero 488beon-gil, Sunam-dong, Yuseong-gu, Daejeon, Republic of Korea, 305-152 (hereinafter "**ASSIGNEE**") is desirous of acquiring an undivided fifty percent (50%) interest into the aforesaid application;

IN CONSIDERATION of good and valuable consideration paid to the undersigned ASSIGNOR, the receipt and sufficiency of which are hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE and its successors, assigns and legal representatives, an undivided fifty percent (50%) interest in and to the aforesaid U.S. patent application and to any patent or patents issuing therefrom or from any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which said patent(s) may be granted and including any extensions thereof.

ASSIGNOR requests, and ASSIGNEE agrees, that any and all patents for the invention be issued in the names of both the ASSIGNOR and the ASSIGNEE, their successors, assigns and legal representatives or to such nominees as they may designate.

The **ASSIGNOR** and **ASSIGNEE** agree, when requested by the other, to do all acts which the other 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 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.

PATENT REEL: 036192 FRAME: 0046 The **ASSIGNOR** covenants with the **ASSIGNEE**, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that the **ASSIGNOR** has the full right to convey same as herein expressed.

For ASSIGNOR, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

| Signature | Date Signed | Witness(es) | |
|------------|-------------|-------------|--|
| 1 | | | |
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By: October 29, 20/2

Name: Gilven Kim

Title: Director.

PATENT REEL: 036192 FRAME: 0047

RECORDED: 07/28/2015