

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                         | NEW ASSIGNMENT                             |
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                    | ASSIGNMENT                                 |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                     |                                            |
| Name                                                                                                                                                                                                                                                                                                                                                                                     | Execution Date                             |
| Shi Uk Chung                                                                                                                                                                                                                                                                                                                                                                             | 09/01/2008                                 |
| Do Hyun Kang                                                                                                                                                                                                                                                                                                                                                                             | 09/01/2008                                 |
| Jung Hwan Chang                                                                                                                                                                                                                                                                                                                                                                          | 09/01/2008                                 |
| Ji Won Kim                                                                                                                                                                                                                                                                                                                                                                               | 09/01/2008                                 |
| Ji Young Lee                                                                                                                                                                                                                                                                                                                                                                             | 09/01/2008                                 |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                     |                                            |
| Name:                                                                                                                                                                                                                                                                                                                                                                                    | Korea Electrotechnology Research Institute |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                          | 28-1, Sungju-dong, Changwon-si             |
| City:                                                                                                                                                                                                                                                                                                                                                                                    | Gyeongsangnam-do                           |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                           | REPUBLIC OF KOREA                          |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                             | 641-120                                    |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                |                                            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                            | Number                                     |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                      | 12146752                                   |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                      |                                            |
| <p>Fax Number: (412)471-4094</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 412-471-8815</p> <p>Email: webblaw@webblaw.com</p> <p>Correspondent Name: THE WEBB LAW FIRM, P.C.</p> <p>Address Line 1: 700 KOPPERS BUILDING</p> <p>Address Line 2: 436 SEVENTH AVENUE</p> <p>Address Line 4: PITTSBURGH, PENNSYLVANIA 15219</p> |                                            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                  | 4366-082059                                |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                       | Richard L. Byrne Reg. No. 28,498           |

OP \$40.00 12146752

**500647531**

**PATENT**  
**REEL: 021530 FRAME: 0463**

**Total Attachments: 4**

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**PATENT**

**REEL: 021530 FRAME: 0464**

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies):**

Shi Uk CHUNG  
Do Hyun KANG  
Jung Hwan CHANG  
Ji Won KIM  
Ji Young LEE

**2. Name and address of receiving party(ies)**

Name: **KOREA ELECTROTECHNOLOGY  
RESEARCH INSTITUTE**

Internal Address: \_\_\_\_\_

Street Address: **28-1, Sungju-dong, Changwon-si**

City: **Gyeongsangnam-do**

State: \_\_\_\_\_

Country: **Republic of Korea** Zip: **641-120**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) **September 1, 2008**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

**12/146,752**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: **Richard L. Byrne**

Internal Address: **The Webb Law Firm**

Street Address: **700 Koppers Building**

**436 Seventh Avenue**

City: **Pittsburgh**

State: **PA** Zip: **15219**

Phone Number: **412-471-8815**

Fax Number: **412-471-4094**

Email Address: **webblaw@webblaw.com**

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

- ☒ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

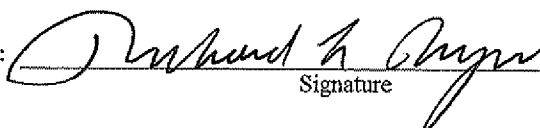
**8. Payment Information**

a. Credit Card Last 4 Numbers **1059**

Expiration Date **08/2010**

b. Deposit Account Number **23-0650**

Authorized User Name \_\_\_\_\_

9. Signature:  Signature

**September 15, 2008**

Date

**Richard L. Byrne, Registration No. 28,499**

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

**4**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**PATENT  
REEL: 021530 FRAME: 0465**

INTERNATIONAL  
Application No. 12/146,752  
Attorney Docket No. 4366-082059

**ASSIGNMENT**

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

**LOW-NOISE, HIGH-SPEED, HIGH PRECISION AND HIGH-THRUST FLUX  
REVERSAL MOTOR FOR LINEAR OR ROTARY MOTION SYSTEM**

(Invention Title)

☐ for which I have this day executed an application for a United States Patent (hereinafter "said application").

AND/OR

☒ for which an application for a United States Patent was filed on 06/26/2008 (mm/dd/yyyy) and bears Application Number 12/146,752 (hereinafter "said application").

AND/OR

☐ for which an international patent application was filed under the Patent Cooperation Treaty on \_\_\_\_\_ (mm/dd/yyyy), bearing Application No. \_\_\_\_\_ (hereinafter "said application").

AND, WHEREAS, **KOREA ELECTROTECHNOLOGY RESEARCH INSTITUTE**, a corporation of the Republic of Korea, having a place of business at 28-1, Sungju-dong, Changwon-si, Gyeongsangnam-do 641-120, Republic of Korea, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No. 12/146,752, filed 06/26/2008) the filing date and application number of said application when known.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me

INTERNATIONAL  
Application No. 12/146,752  
Attorney Docket No. 4366-082059

respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

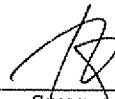
1. FULL NAME OF ASSIGNOR:

RESIDENCE:

Shi Uk CHUNG

Changwon-si, Republic of Korea

EXECUTED this 1 day of September, 2008



SIGNATURE

WITNESS:

\_\_\_\_\_

~~~~~

2. FULL NAME OF ASSIGNOR:

RESIDENCE:

Do Hyun KANG

Changwon-si, Republic of Korea

EXECUTED this 1 day of September, 2008



SIGNATURE

WITNESS:

\_\_\_\_\_

☒ Checked Box indicates 1 additional page(s) for inventor signatures.

INTERNATIONAL  
Application No. 12/146,752  
Attorney Docket No. 4366-082059

3. FULL NAME OF ASSIGNOR:

RESIDENCE:

Jung Hwan CHANG

Changwon-si, Republic of Korea

EXECUTED this 1 day of September, 2008



SIGNATURE

WITNESS:

\_\_\_\_\_

~~~~~

4. FULL NAME OF ASSIGNOR:

RESIDENCE:

Ji Won KIM

Busan, Republic of Korea

EXECUTED this 1 day of September, 2008



SIGNATURE

WITNESS:

\_\_\_\_\_

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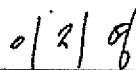
5. FULL NAME OF ASSIGNOR:

RESIDENCE:

Ji Young LEE

Changwon-si, Republic of Korea

EXECUTED this 1 day of September, 2008



SIGNATURE

WITNESS:

\_\_\_\_\_

Page 3 of 3