

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BYOUNG-GUE MIN	05/30/2013
SANG CHOON KO	05/30/2013
JONG-WON LIM	05/30/2013
HOKYUN AHN	05/30/2013
HYUNG SUP YOON	05/30/2013
JAE KYOUNG MUN	08/12/2013
EUN SOO NAM	08/11/2013
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<b>Name:</b>	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
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<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	305-700
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14845435
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	KOR-445D1
<b>NAME OF SUBMITTER:</b>	ROBERT H. BERDO, JR.
<b>SIGNATURE:</b>	/Robert H. Berdo, Jr./
<b>DATE SIGNED:</b>	09/04/2015

PATENT

This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3**

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**ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT**

WHEREAS MIN, BYOUNG-GUE; KO, Sang Choon; LIM, Jong-Won; AHN, Hokyun; YOON, Hyung Sup; MUN, Jae Kyoung; and NAM, EUN SOO of Republic of Korea hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME

said application being attached hereto;

said application having been filed in the United States Patent and Trademark Office on

\_\_\_\_\_, as Application Serial No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable);

the specification of which was filed under the Patent Cooperation Treaty on \_\_\_\_\_, Serial No. \_\_\_\_\_, the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Address all correspondence and telephone calls to Rabin & Berdo, P.C., 1101 14<sup>th</sup> Street, N.W., Suite 500, Washington, D.C. 20005, Telephone: (202) 371-8976; Fax: (202) 408-0924, Customer No. 23995.

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ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

ASSIGNOR (THE FIRST INVENTOR):

Signature: MIN BYOUNG-GUE  
Legal Name: MIN, BYOUNG-GUE  
Date: May 30, 2013

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
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ASSIGNOR (THE SECOND INVENTOR):

Signature: KO Sang Choon  
Legal Name: KO, Sang Choon  
Date: May 30, 2013

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

ASSIGNOR (THE THIRD INVENTOR):

Signature: LIM Jongwon  
Legal Name: LIM, Jong-Won  
Date: May 30, 2013

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
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ASSIGNOR (THE FOURTH INVENTOR):

Signature: AHN Hokyun  
Legal Name: AHN, Hokyun  
Date: May 30, 2013

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

ASSIGNOR (THE FIFTH INVENTOR):

Signature: YOON Hyung Sup  
Legal Name: YOON, Hyung Sup  
Date: May 30, 2013

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

ASSIGNOR (THE SIXTH INVENTOR):

Signature: *Jae Kyoung Mun*  
Legal Name: MUN, Jae Kyoung  
Date: Aug. 12, 2013

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
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ASSIGNOR (THE SEVENTH INVENTOR):

Signature: *Eun Soo Nam*  
Legal Name: NAM, EUN SOO  
Date: August 11, 2013