

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jae Bon KOO</td> <td>01/15/2010</td> </tr> <tr> <td>Seung Youl KANG</td> <td>01/15/2010</td> </tr> <tr> <td>In-Kyu YOU</td> <td>01/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Jae Bon KOO	01/15/2010	Seung Youl KANG	01/15/2010	In-Kyu YOU	01/15/2010
Name	Execution Date								
Jae Bon KOO	01/15/2010								
Seung Youl KANG	01/15/2010								
In-Kyu YOU	01/15/2010								
RECEIVING PARTY DATA									
Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE								
Street Address:	161, Gajeong-dong, Yuseong-gu								
City:	Daejeon								
State/Country:	REPUBLIC OF KOREA								
Postal Code:	305-700								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12766953</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12766953				
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Application Number:	12766953								
CORRESPONDENCE DATA									
Fax Number:	(202)408-0924								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	202-371-8976								
Email:	firm@rabinberdo.com								
Correspondent Name:	Rabin & Berdo, P.C.								
Address Line 1:	1101 14th St. N.W.								
Address Line 2:	Suite 500								
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005								
ATTORNEY DOCKET NUMBER:	KOR-171								
NAME OF SUBMITTER:	Robert H. Berdo, Jr.								

OP \$40.00 12766953

Total Attachments: 2
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501157588

**PATENT
 REEL: 024284 FRAME: 0492**

Attorney reference _____

Client Reference: IP20091260

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS KOO, Jae Bon; KANG, Seung Youl and YOU, In-Kyu, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to **METHOD** **FOR** **MANUFACTURING SEMICONDUCTOR DEVICE**

[x] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (_____) the application serial number of said application when known;

[] said application having been 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, 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.

EXECUTED, this 15 day of Jan., 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Jae Bon KOO
Name: KOO, Jae Bon

WITNESSES:

Signature: _____
Name: _____
Address: _____


ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this 15 day of Jan., 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature:  _____
Name: KANG, Seung Youl

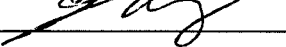
Signature: _____
Name: _____
Address: _____

EXECUTED, this 15 day of Jan., 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature:  _____
Name: YOU, In-Kyu

Signature: _____
Name: _____
Address: _____
