

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jeong HEO	10/20/2011
Myung Gil JANG	10/20/2011
Hyunki KIM	10/20/2011
Pum Mo RYU	10/20/2011
Changki LEE	10/20/2011
Chung Hee LEE	10/20/2011
Ji Ae SHIN	10/20/2011
Yoonjae CHOI	10/20/2011
Soojong LIM	10/20/2011
Miran CHOI	10/20/2011
Yeo Chan YOON	10/20/2011
Hyo-Jung OH	10/20/2011
Sang Kyu PARK	10/20/2011

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

Property Type	Number
Application Number:	13281368

CORRESPONDENCE DATA

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OP \$40.00 13281368

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

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:	FIR-112
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NAME OF SUBMITTER:	Steven M. Rabin
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Total Attachments: 4
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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Jeong HEO, Myung Gil JANG, HyunKi KIM, Pum Mo RYU, Changki LEE, Chung Hee LEE, Ji Ae SHIN, Yoonjae CHOI, Soojong LIM, Miran CHOI, Yeo Chan YOON, HYO-JUNG OH and Sang Kyu PARK all residing at Electronics and Telecommunications Research Institute, 161 Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea,

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to _____

QUESTION TYPE AND DOMAIN IDENTIFYING APPARATUS AND METHOD

[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., Phillip G. Avruch, and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

AND WHEREAS Electronics and Telecommunications Research Institute residing at 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 20 day of October, 2011.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature Jeong Heo

Name: Jeong HEO

RABIN & BERDO, P.C., Washington, D.C.

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WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Myung Gil Jang
Name: Myung Gil JANG

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Hyunki Kim
Name: Hyunki KIM

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Pum-Mo Ryu
Name: Pum Mo RYU

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Changki Lee
Name: Changki LEE

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:


Signature: Chung Hee Lee
Name: Chung Hee LEE

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Signature: _____
Name: _____
Address: _____

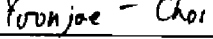
ASSIGNOR:

Signature:  _____
Name: Ji Ae SHIN

WITNESSES:

Signature: _____
Name: _____
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ASSIGNOR:

Signature:  _____
Name: Yoonjae CHOI

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Signature: _____
Name: _____
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ASSIGNOR:

Signature:  _____
Name: Soojong LIM

WITNESSES:

Signature: _____
Name: _____
Address: _____


ASSIGNOR:

Signature:  _____
Name: Miran CHOI

WITNESSES:

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Name: _____
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ASSIGNOR:

Signature:  _____
Name: Yeo Chan YOON

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Page 4 of 4


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Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature:  _____

Name: HYO-JUNG OH

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Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature:  _____

Name: Sang Kyu PARK