# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Juyul LEE	09/11/2013
Keun Young KIM	09/11/2013
Seong Chul CHO	09/11/2013
Seung-Hwan LEE	09/23/2013

### **RECEIVING PARTY DATA**

Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
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State/Country:	REPUBLIC OF KOREA
Postal Code:	305-350

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14041632

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	PAN-193
NAME OF SUBMITTER:	Steven M. Rabin
Signature:	/Steven M. Rabin/

502514837 REEL: 031310 FRAME: 0190

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Date:	09/30/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 2 source=PAN-193-Assignment_Declaration#page1.tif source=PAN-193-Assignment_Declaration#page2.tif	

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	IP20121040 _Pan
Attorney Reference:	

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

WHEREAS, LEE, Juyul; Kim, Keun Young; CHO, Seong Chul; LEE, Seung-Hwan hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

#### METHOD AND APPARATUS FOR FORMING BEAM THROUGH ONE-WAY COOPERATIVE CHANNEL

	being attached hereto; having been filed in the United States Patent and Trademark Office on		
	· ·	and was	amended
on	(if applicable);		
[ ] the specification	of which was filed under the Patent Cooperation Treaty on	,	ı
Serial No	the United States of America being designated.		
AND WHEREA	S ELECTRONICS AND TELECOMMUNICATIONS RESEARCH	INSTITU	JTE of
161, Gajeong-done	g, Yuseong-gu, Daejeon 305-350, Republic of Korea hereinafter referre	ed to as th	e
assignee or applica	ant, is desirous of acquiring the entire right, title and interest in and to said a	applicatio	'n,

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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# Continued -Page 2 ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

Signature:	Signature: 53
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Address:	<b>∜</b>
WITNESS:	ASSIGNOR (SECOND INVENTOR):
Signature:	Signature:
Name:	
Address:	Date: 11/54P/2013
WITNESS:	ASSIGNOR (THIRD INVENTOR):
Signature:	w.
Name:	Legal Name: CHO, Seong Chul
Address:	
WITNESS:	ASSIGNOR (FOURTH INVENTOR):
Signature:	Signature: K//
Name:	
Address:	Date:

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

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**RECORDED: 09/30/2013**