

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4737622

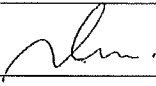
<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MIN HYUN KIM	12/04/2017
JUNG HOON LEE	12/04/2017
SUNG HYUN MOON	12/04/2017
JUN HWAN LEE	12/04/2017
JI HYUNG KIM	12/04/2017
JU HO PARK	12/04/2017
CHEUL SOON KIM	12/04/2017
TAE JOONG KIM	12/04/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
<b>Street Address:</b>	218, GAJEONG-RO, YUSEONG-GU
<b>City:</b>	DAEJEON
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	34129
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15843970
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)408-0924
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	202-371-8976
<b>Email:</b>	firm@rabinberdo.com
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<b>Address Line 1:</b>	1101 14TH ST., N.W., SUITE 500
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<b>ATTORNEY DOCKET NUMBER:</b>	ESA-137
<b>NAME OF SUBMITTER:</b>	STEVEN M. RABIN
<b>SIGNATURE:</b>	/Steven M. Rabin/

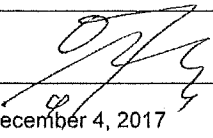
<b>DATE SIGNED:</b>	12/15/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 3</b> source=03_ESA-137_ASG-DEC#page1.tif source=03_ESA-137_ASG-DEC#page2.tif source=03_ESA-137_ASG-DEC#page3.tif	

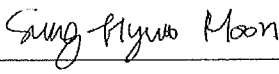
출원 자료를 이용한 실용 또는 디자인 특허 출원 선언 및 양도서 (37 CFR 1.76)  
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
 USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**


<b>발명의 명칭</b> <b>Title of Invention</b>	OPERATION METHOD OF COMMUNICATION NODE TRANSMITTING SYNCHRONIZATION SIGNAL IN COMMUNICATION NETWORK
<b>선언</b> <b>Declaration</b>	<p>아래에 기명된 발명자로서, 본인은 아래와 같이 선언합니다:                  As the below named inventor(s), I hereby declare that:                  동 선언서 제출처:                  The declaration is directed to:</p> <p><input checked="" type="checkbox"/> 첨부된 출원, 또는                  The attached application, or</p> <p><input type="checkbox"/> 미국 출원 또는 PCT 국제 출원 번호 _____ 및                  출원 일자 _____.</p> <p>United States application or PCT international application number  <b>PCT/KR#####</b> filed on _____.</p> <p>상기 기재된 출원은 본인이 작성하였거나, 본인의 허락하에 본인 작성으로                  신고되었습니다.                  The above-identified application was made or authorized to be made by me.                  본인은 본인이 단독 또는 공동 발명자와 함께 출원서에 주장된 발명사항을 발명한                  사람이라고 믿습니다.                  I believe that I am the original or an original joint inventor of a claimed invention in the                  application.                  본인은 의도적인 허위 진술이 동 선언서에 기재되었을 경우 18 U.S.C. 1001 에 의거,                  벌금형 또는 (5) 년 이하의 징역형 또는 두 가지 형벌을 모두 받을 수 있음을 인지합니다.                  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.</p>
<b>양도</b> <b>Assignment</b>	<p>NOW, THEREFORE, in consideration of the sum of one dollar (\$1), the receipt whereof                  is acknowledge, and other good and valuable consideration, I, by these presents do sell,                  assign and transfer unto said assignee(s)</p> <p style="text-align: center;">Electronics and Telecommunications Research Institute                  218 Gajeong-ro, Yuseong-gu, Daejeon, 34129, KOREA                  Republic of Korea</p> <p>and the heirs, successors, assigns and legal representatives of the assignee(s) the full                  and exclusive right to the said invention in the United States and in its territorial                  possessions and in any and all foreign countries any and all improvements thereof, the                  entire rights, title and interest in and to any and all Patents which may be granted                  therefore in the United States. I hereby authorize and request the Director of the U.S.                  Patent and Trademark Office to issue said United States Patent to said assignee(s), of the                  entire right, title, and interest in and to the same, for his sole use and for the use of his                  legal representatives, to the full end of the term for which said Patent may be granted, as                  fully and entirely as the same would have been held by me had this assignment and sale                  not been made.</p> <p>I agree promptly upon request of the assignee(s), its heirs, successors, assigns and                  legal representatives of the assignee(s) to communicate any facts known to it respecting                  the patent and the invention set forth therein, and to execute and deliver without further</p>

출원 자료서를 이용한 실용 또는 디자인 특허 출원 선언 및 양도서 (37 CFR 1.76)  
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	compensation any power of attorney, Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary. I hereby covenant that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale. I further covenant that assignee(s) will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to me and will testify as to the same in any litigation related thereto and will promptly execute and deliver to assignee(s) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.	
발명자의 법적 성명 Legal Name Of Inventor	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Min Hyun KIM
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

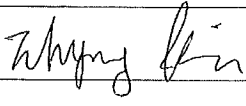
공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Jung Hoon LEE
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

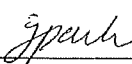
공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Sung Hyun MOON
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

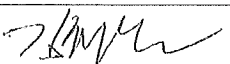
공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Jun Hwan LEE
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

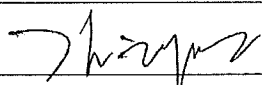
A total of \_\_\_ supplemental sheet(s) are attached hereto for additional inventors, if any.

출원 자료서를 이용한 실용 또는 디자인 특허 출원 선언 및 양도서 (37 CFR 1.76)  
 DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
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공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Ji Hyung KIM
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Ju Ho PARK
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Cheul Soon KIM
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017

공동 발명자의 법적 성명 Legal Name Of Joint Inventor, If Any	발명자 성명(이름, 성): Inventor Name (First Middle LAST):	Tae Joong KIM
	발명자 서명: Inventor Signature:	
	일자: Date:	December 4, 2017