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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEV	V ASSIGNMENT			
NATURE OF CONVEYANCE:		ASS	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ					
		Nam	Name		Execution Date	
ELECTRONICS AND TE		JUNICATI	ONS RESEARCH INSTIT	01/12/2017		
RECEIVING PARTY DA	TA					
Name:	SK TELECOM CO., LTD.					
Street Address:	11, EULJIRO 2-GA, JUNG-GU,					
City:	SEOUL					
State/Country:	KOREA, REPUBLIC OF					
Postal Code:	100-999	•				
Patent Number:	8	8538671				
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using a fax number, if	provided;	; if that is				
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UNITED STATES OF AMERICA ASSIGNMENT

WHEREAS, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE ("ASSIGNOR"), an Institute organized under the laws of the Republic of Korea, with a place of business at 161 GAJEONG-DONG, YUSEONG-GU, DAEJEON 305-350, REPUBLIC OF KOREA, co-owns the United States Patent(s) (the "Patent(s)") listed on the attached Schedule A; and

WHEREAS, SK TELECOM CO., LTD. ("ASSIGNEE"), a Limited Company organized under the laws of the Republic of Korea, with a place of business at 11, EULJIRO 2-GA, JUNG-GU, SEOUL 100-999, REPUBLIC OF KOREA, desires to acquire all rights to the Patent(s);

NOW, THEREFORE, in consideration of <u>One Dollar (\$1.00</u>) and other valuable consideration, the receipt of which ASSIGNOR acknowledges, ASSIGNOR has sold, assigned, transferred, and set over, and does, by this Assignment, sell, assign, transfer, and set over unto ASSIGNEE, all rights to the Patent(s), including reissues and extensions, to be held and enjoyed by ASSIGNEE, its successors, assigns, and legal representatives, for ASSIGNEE's own use and benefit and for the use and benefit of its successors, assigns, and legal representatives, to the end of the term(s) for which the Patent(s) has/have been granted or may be reissued or extended, as fully and entirely as the Patent(s) would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made; together with all claims for profits and damages by reason of past infringement, with the right to sue for and collect the same for the use and benefit of ASSIGNEE, its successors, assigns, and legal representatives.

This Assignment is deemed to have become effective as from January 12, 2017

IN WITNESS WHEREOF, ASSIGNOR and ASSIGNEE have caused this Assignment to be executed by its duly authorized officer or representative on the date(s) indicated below.

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

By: Yung-Sik Kevon

Name: Yung-Sik Kwon Title: Director Date: January 12, 2017

SK TELECOM CO., LTD.

By: 155 Lorn

Name: Bum Soo, SHIN Title: Zpk Team Leader Date: JAN 13, 2017 Page 1 of 2

PATENT REEL: 041244 FRAME: 0123

<u>Schedule</u>

Country	Application No.	Patent No.	Patent Title
USA	12/632236	8538671	FOR DETECTING POSITION AND ORIENTATION OF MOBILE OBJECT

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RECORDED: 02/14/2017