

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4665106


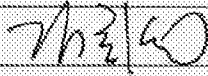

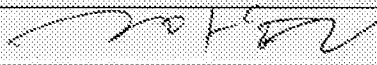


<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIN HO LEE	07/24/2015
HUI YONG KIM	07/24/2015
SE YOON JEONG	08/03/2015
SUK HEE CHO	07/24/2015
HA HYUN LEE	07/24/2015
JONG HO KIM	07/24/2015
SUNG CHANG LIM	07/24/2015
JIN SOO CHOI	07/27/2015
JIN WOONG KIM	07/27/2015
CHIE TEUK AHN	08/10/2015
<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>
<b>Application Number:</b>	15798024
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(630)323-0335
<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>Email:</b>	uspto.actions@wpapat.com
<b>Correspondent Name:</b>	WILLIAM PARK & ASSOCIATES LTD.
<b>Address Line 1:</b>	930 N. YORK ROAD, SUITE 201
<b>Address Line 4:</b>	HINSDALE, ILLINOIS 60521
<b>ATTORNEY DOCKET NUMBER:</b>	PA0929-4C
<b>NAME OF SUBMITTER:</b>	WOOCHOON WILLIAM PARK

<b>SIGNATURE:</b>	/Woochoon William Park/
<b>DATE SIGNED:</b>	10/30/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 4</b> source=PA0929-4C_DEC_ASSGN#page1.tif source=PA0929-4C_DEC_ASSGN#page2.tif source=PA0929-4C_DEC_ASSGN#page3.tif source=PA0929-4C_DEC_ASSGN#page4.tif	


**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**


<b>Title of Invention</b>	METHOD AND APPARATUS FOR PERFORMING INTRA-PREDICTION USING ADAPTIVE FILTER
<b>Declaration</b>	<p>As the below named inventor(s), I hereby declare that: The declaration is directed to:</p> <p><input checked="" type="checkbox"/> The attached application, or <input type="checkbox"/> United States application or PCT international application number <b>PCT/KR#####</b> filed on _____.</p> <p>The above-identified application was made or authorized to be made by me. I believe that I am the original 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.</p>
<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 align="center"><b>ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE</b> 218, Gajeong-ro, Yuseong-gu, Daejeon, 34129, 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 compensation any power of attorney, Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary.</p> <p>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.</p> <p>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.</p>

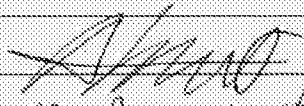
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

Legal Name Of Inventor	Inventor Name (First Middle LAST):	Jin Ho LEE
	Inventor Signature:	
	Date:	Jul. 24, 2015
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Hui Yong KIM
	Inventor Signature:	
	Date:	Jul. 24, 2015
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Se Yoon JEONG
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Suk Hee CHO
	Inventor Signature:	
	Date:	Jul. 24, 2015
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Ha Hyun LEE
	Inventor Signature:	
	Date:	Jul. 24, 2015
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Jong Ho KIM
	Inventor Signature:	
	Date:	Jul. 24, 2015
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Sung Chang LIM
	Inventor Signature:	
	Date:	Jul. 24, 2015

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

<b>Legal Name Of Joint Inventor, If Any</b>	Inventor Name (First Middle LAST):	Jin Soo CHOI
	Inventor Signature:	
	Date:	July 27, 2015

<b>Legal Name Of Joint Inventor, If Any</b>	Inventor Name (First Middle LAST):	Jin Woong KIM
	Inventor Signature:	
	Date:	July, 27, 2015

<b>Legal Name Of Joint Inventor, If Any</b>	Inventor Name (First Middle LAST):	Chie Teuk AHN
	Inventor Signature:	
	Date:	10, Aug, 2015

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

Legal Name Of Inventor	Inventor Name (First Middle LAST):	Jin Ho LEE
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Hui Yong KIM
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Se Yoon JEONG
	Inventor Signature:	<i>Se Yoon Jeong</i>
	Date:	<i>Aug. 3. 2015</i>
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Suk Hee CHO
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Ha Hyun LEE
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Jong Ho KIM
	Inventor Signature:	
	Date:	
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Sung Chang LIM
	Inventor Signature:	
	Date:	