

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE	02/26/2019
KWANGWOON UNIVERSITY RESEARCH INSTITUTE FOR INDUSTRY COOPERATION	03/08/2019
INDUSTRY ACADEMY COOPERATION FOUNDATION OF SEJONG UNIVERSITY	02/20/2019
RECEIVING PARTY DATA	
Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
Street Address:	218 GAJEONG-RO, YUSEONG-GU
City:	DAEJEON
State/Country:	KOREA, REPUBLIC OF
Postal Code:	34129
PROPERTY NUMBERS Total: 6	
Property Type	Number
Application Number:	16216551
Patent Number:	8199819
Patent Number:	8520729
Patent Number:	9118892
Patent Number:	9838714
Patent Number:	10187660
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	CHARLES Y PARK

SIGNATURE:	/Charles Y Park/
DATE SIGNED:	03/12/2019
Total Attachments: 4 source=ApplicantChange_0221280067C1C1C1C1C1_AssignmentAsFiled#page1.tif source=ApplicantChange_0221280067C1C1C1C1C1_AssignmentAsFiled#page2.tif source=ApplicantChange_0221280067C1C1C1C1C1_AssignmentAsFiled#page3.tif source=ApplicantChange_0221280067C1C1C1C1C1_AssignmentAsFiled#page4.tif	

ASSIGNMENT

For valuable consideration,

Electronics and Telecommunications Research Institute, a Republic of Korea institute having principal executive offices or place of business at: 218 Gajeong-ro, Yuseong-gu, Daejeon, 34129, Republic of Korea; **Kwangwoon University Research Institute for Industry Cooperation**, a Republic of Korea institute having principal executive offices or place of business at: 20 Gwangun-ro (447-1, Wolgye-dong), Nowon-gu, Seoul, Republic of Korea; and **Industry Academy Cooperation Foundation of Sejong University**, a Republic of Korea foundation having principal executive offices or place of business at: 98 Gun-Ja Dong, Gwangjin-Gu, Seoul 143-747, Republic of Korea (hereinafter called "the Assignor"),

hereby assign to:

Electronics and Telecommunications Research Institute, a Republic of Korea institute having principal executive offices or place of business at: 218 Gajeong-ro, Yuseong-gu, Daejeon, 34129 Republic of Korea; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Applications:

Patent No.	Issue Date	Title
8,199,819	06-12-2012	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING
8,520,729	08-27-2013	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING
9,118,892	08-25-2015	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING
9,838,714	12-05-2017	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING
10,187,660	01-22-2019	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING

Application No.	Filing Date	Title
16/216,551	12-11-2018	APPARATUS AND METHOD FOR ENCODING AND DECODING MOVING PICTURE USING ADAPTIVE SCANNING

this Assignment includes said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, any

reissues, supplemental examinations, and reexaminations, and the right to claim priority based on the filing date of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and Assignor authorizes the Assignee to apply in all countries in Assignor's name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and Assignor agrees for itself and its heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN TESTIMONY/WITNESS WHEREOF, undersigned Assignor intending to be legally bound, has hereto affixed its signature by its duly authorized representative.

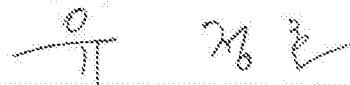
This 26th day of Feb., 2019

Yung-Sik Kwon
Signature of Representative of Electronics
and Telecommunications Research
Institute

Yung-Sik Kwon
Printed Name of Representative

Director.
Title

This 8th day of March, 2019



Signature of Representative of Kwangwoon
University Research Institute for Industry
Cooperation

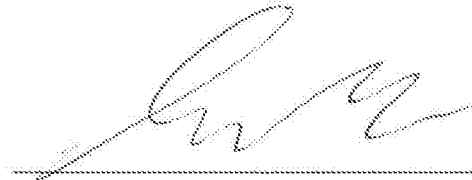
Yu Jung-ho,

Printed Name of Representative

Dean

Title

This 20th day of February, 2019



Signature of Representative of Industry
Academy Cooperation Foundation of
Sejong University

Sung Wook Park

Printed Name of Representative

President

Title