

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KWANGWOON UNIVERSITY INDUSTRY-ACADEMIC COLLABORATION FOUNDATION	11/23/2012
<b>RECEIVING PARTY DATA</b>	
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16846272
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<b>DATE SIGNED:</b>	04/10/2020
<b>Total Attachments: 2</b>	
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ASSIGNMENT

WHEREAS, Kwangwoon University Industry-Academic Collaboration Foundation, having its principal place of business at 447-1, Wolgye-dong, Nowon-Gu, Seoul 139-701, REPUBLIC OF KOREA (hereinafter "ASSIGNOR") in consideration of One Dollar and other valuable consideration paid to it by

Electronics and Telecommunications Research Institute

having its principal place of business 161 Gajeong-dong, Yuseong-gu, Daejeon 305-700, REPUBLIC OF KOREA, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Electronics and Telecommunications Research Institute

(hereinafter "ASSIGNEE"), their successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

LPC RESIDUAL SIGNAL ENCODING/DECODING APPARATUS OF MODIFIED  
DISCRETE COSINE TRANSFORM (MDCT)-BASED UNIFIED VOICE/AUDIO  
ENCODING DEVICE

described in Application No. 13/124,043, filed on July 5, 2011

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And ASSIGNOR agrees, with said ASSIGNEE and their successors and assigns but at their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said ASSIGNEE, with specifications and claims in such form as shall be approved by the counsel of said ASSIGNEE and to vest and confirm in said ASSIGNEE, its successors and assigns, the legal title to all such patents.

And ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors and assigns.

By: Kwangwoon University Industry-Academic Collaboration Foundation

Tae Hyung Lee  
Name (typed or printed)

Manager  
Title

November 23, 2012  
Date

[Signature]  
Signature

Witness:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature