

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jong Ho KIM</td> <td>06/12/2013</td> </tr> <tr> <td>Hui Yong KIM</td> <td>06/12/2013</td> </tr> <tr> <td>Sung Chang LIM</td> <td>06/12/2013</td> </tr> <tr> <td>Ha Hyun LEE</td> <td>06/12/2013</td> </tr> <tr> <td>Jin Ho LEE</td> <td>06/12/2013</td> </tr> <tr> <td>Se Yoon JEONG</td> <td>06/12/2013</td> </tr> <tr> <td>Jin Soo CHOI</td> <td>06/12/2013</td> </tr> <tr> <td>Jin Woong KIM</td> <td>06/12/2013</td> </tr> <tr> <td>Chie Teuk AHN</td> <td>06/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jong Ho KIM	06/12/2013	Hui Yong KIM	06/12/2013	Sung Chang LIM	06/12/2013	Ha Hyun LEE	06/12/2013	Jin Ho LEE	06/12/2013	Se Yoon JEONG	06/12/2013	Jin Soo CHOI	06/12/2013	Jin Woong KIM	06/12/2013	Chie Teuk AHN	06/12/2013
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RECEIVING PARTY DATA																					
Name:	Electronics and Telecommunications Research Institute																				
Street Address:	161, Gajeong-dong, Yuseong-gu, Daejeon, 305-700																				
City:	Daejeon																				
State/Country:	KOREA, REPUBLIC OF																				
PROPERTY NUMBERS Total: 1																					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13980521</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13980521																
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Application Number:	13980521																				
CORRESPONDENCE DATA																					
Fax Number:	2023153758																				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																					
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ATTORNEY DOCKET NUMBER:	022090.0022																				

PATENT

NAME OF SUBMITTER:	Loren H. Tung
Signature:	/Loren H. Tung/
Date:	07/18/2013
<b>Total Attachments: 4</b> source=NewApp_0220900022_AssignmentExecuted_asfiled#page1.tif source=NewApp_0220900022_AssignmentExecuted_asfiled#page2.tif source=NewApp_0220900022_AssignmentExecuted_asfiled#page3.tif source=NewApp_0220900022_AssignmentExecuted_asfiled#page4.tif	

**ASSIGNMENT**

For valuable consideration, we,

KIM, Jong Ho	Rm. 205 Finehouse, 146-8 Sinseong-dong, Yuseong-gu Daejeon-si 305-804, Republic of Korea
KIM, Hui Yong	601-201 Yeolmaemaetul Apt., Jijok-dong, Yuseong-gu Daejeon-si 305-770, Republic of Korea
LIM, Sung Chang	Rm. 201 Sejongvilla, 254-8 Sinseong-dong, Yuseong-gu Daejeon 305-805, Republic of Korea
LEE, Ha Hyun	136-5 Myeonmok 2-dong, Jungnang-gu, Seoul 131-819, Republic of Korea
LEE, Jin Ho	Rm. 302 Unovill, 210-51 Sinseong-dong, Yuseong-gu Daejeon-si 305-345, Republic of Korea
JEONG, Se Yoon	101-1203 Geumseong Baekjo Apt., Birae-dong, Daedeok-gu Daejeon-si 306-769, Republic of Korea
CHOI, Jin Soo	609-1605 Banseokmaeul 6 Danji Apt., 613 Banseok-dong, Yuseong-gu Daejeon-si 305-750, Republic of Korea
KIM, Jim Woong	305-1603 Expo Apt., Jeonmin-dong, Yuseong-gu Daejeon-si 305-761, Republic of Korea
AHN, Chie Teuk	13-1001 Shindonga Apt., Yongjeon-dong, Dong-gu Daejeon- si 305-340, Republic of Korea

hereby assign to:

**ELECTRONICS AND TELECOMMUNICATIONS RESEARCH**

**INSTITUTE**, a Republic of Korea corporation/institution/foundation/institute having principal executive office(s) or place of business at: 161 Gajeong-dong, Yuseong-gu Daejeon 305-700, 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 Application Number

13/980,521 filed July 18, 2013 at the U.S. Patent & Trademark Office signed by us, with title **ENTROPY CODING METHOD USING AN INDEX MAPPING TABLE, AND IMAGE-ENCODING/DECODING APPARATUS AND METHOD USING SAID ENTROPY CODING METHOD**, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date

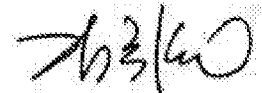
and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application 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 we authorize the Assignee to apply in all countries in our 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 we agree for ourselves and our respective 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, we, undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.


This 12<sup>th</sup> day of June, 2013

  
Signature: KIM, Jong Ho

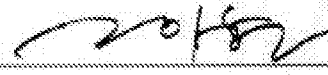
This 12<sup>th</sup> day of June, 2013

  
Signature: KIM, Hui Yong

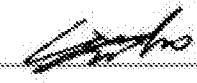
This 12<sup>th</sup> day of June, 2013

  
Signature: LIM, Sung Chang

This 12<sup>th</sup> day of June, 2013

  
Signature: LEE, Ha Hyun

This 12<sup>th</sup> day of June, 2013

  
Signature: LEE, Jin Ho

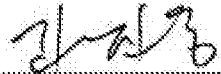
This 12<sup>th</sup> day of June, 2013

  
Signature: JEONG, Se Yoon

This 12<sup>th</sup> day of June, 2013

  
Signature: CHOI, Jin Soo

This 12<sup>th</sup> day of June, 2013

  
Signature: KIM, Jin Woong

This 12<sup>th</sup> day of June, 2013

  
Signature: AHN, Chie Teuk