

## PATENT ASSIGNMENT

Electronic Version v1.1

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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>Ha Hyun LEE</td> <td>04/12/2013</td> </tr> <tr> <td>Hui Yong KIM</td> <td>04/12/2013</td> </tr> <tr> <td>Sung Chang LIM</td> <td>04/12/2013</td> </tr> <tr> <td>Jong Ho KIM</td> <td>04/12/2013</td> </tr> <tr> <td>Jin Ho LEE</td> <td>04/12/2013</td> </tr> <tr> <td>Se Yoon JEONG</td> <td>04/12/2013</td> </tr> <tr> <td>Suk Hee CHO</td> <td>04/12/2013</td> </tr> <tr> <td>Jin Soo CHOI</td> <td>04/12/2013</td> </tr> <tr> <td>Jin Woong KIM</td> <td>04/12/2013</td> </tr> <tr> <td>Chie Teuk AHN</td> <td>04/12/2013</td> </tr> </tbody> </table> |   | Name          | Execution Date | Ha Hyun LEE         | 04/12/2013 | Hui Yong KIM | 04/12/2013 | Sung Chang LIM | 04/12/2013 | Jong Ho KIM | 04/12/2013 | Jin Ho LEE | 04/12/2013 | Se Yoon JEONG | 04/12/2013 | Suk Hee CHO | 04/12/2013 | Jin Soo CHOI | 04/12/2013 | Jin Woong KIM | 04/12/2013 | Chie Teuk AHN | 04/12/2013 |
| Name   | Execution Date  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Ha Hyun LEE  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Hui Yong KIM   | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Sung Chang LIM   | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Jong Ho KIM  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Jin Ho LEE   | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Se Yoon JEONG  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Suk Hee CHO  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Jin Soo CHOI   | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Jin Woong KIM  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Chie Teuk AHN  | 04/12/2013  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| RECEIVING PARTY DATA   |   |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Name:  | Electronics and Telecommunications Research Institute |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Street Address:  | 161 Gajeong-dong, Yuseong-gu 305-700                  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
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| 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>13988958</td> </tr> </tbody> </table>  |   | Property Type | Number         | Application Number: | 13988958   |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Property Type  | Number  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Application Number:  | 13988958  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| CORRESPONDENCE DATA  |   |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| Fax Number:  | 2023153758  |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>   |   |               |                |                     |            |              |            |                |            |             |            |            |            |               |            |             |            |              |            |               |            |               |            |
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| Signature:   | /Nicholas M. Stabler/ |
| Date:  | 05/22/2013            |
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ASSIGNMENT

For valuable consideration, we,

|                 |   |
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| KIM, Hui Yong   | 601-201 Yeolmaemaoul Apt., Iijok-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                |
| KIM, Jong Ho    | Rm. 205 Finehouse, 146-8 Sinseong-dong, Yuseong-gu, Daejeon-si 305-804, Republic of Korea               |
| LEE, Jin Ho     | 313-1102 Youngbangmaeul Apt., Yongun-dong, Dong-gu, Daejeon-si 300-787, Republic of Korea               |
| JEONG, Se Yoon  | 101-1203 Geumseong Baekjo Apt., Birae-dong, Daedeok-gu, Daejeon-si 306-769, Republic of Korea           |
| CHO, Suk Hee    | 103-802 Humansia Apt., Bongsan-dong, Yuseong-gu, Daejeon-si 305-763, 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, Jin Woong  | 305-1603 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon-si 305-761, Republic of Korea                     |
| AHN, Chie Teuk  | 2-504 KAIST Apt., Doryong-dong, Yuseong-gu, Daejeon-si 305-340, Republic of Korea                       |

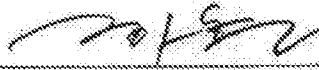
hereby assign to:

**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-si 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 \_\_\_\_\_ filed \_\_\_\_\_ at the U.S. Patent & Trademark Office signed by us, with title **INTRA PREDICTION MODE ENCODING/DECODING METHOD AND APPARATUS FOR SAME**, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by

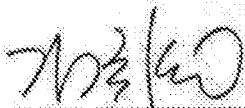
inserting above the filing date and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim 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 April, 2013

  
Signature: LEE, Ha Hyun

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

  
Signature: KIM, Hui Yong

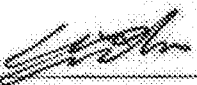
This 12<sup>th</sup> day of April, 2013

  
Signature: LIM, Sung Chang

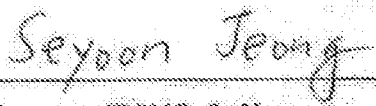
This 12<sup>th</sup> day of April, 2013

  
Signature: KIM, Jong Ho

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

  
Signature: LEE, Jin Ho

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

  
Signature: JEONG, Se Yoon

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

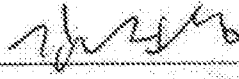
  
Signature: CHO, Suk Hee

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



Signature: CHOI, Jin Soo

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



Signature: KIM, Jia Woong

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



Signature: AHN, Chie Teuk