

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Hae Chul CHOI</td> <td>12/26/2012</td> </tr> <tr> <td>Se Yoon JEONG</td> <td>01/02/2013</td> </tr> <tr> <td>Sung-Chang LIM</td> <td>01/02/2013</td> </tr> <tr> <td>Jin Soo CHOI</td> <td>01/02/2013</td> </tr> <tr> <td>Jin Woo HONG</td> <td>01/02/2013</td> </tr> <tr> <td>Dong Gyu SIM</td> <td>01/02/2013</td> </tr> <tr> <td>Seoung-Jun OH</td> <td>01/02/2013</td> </tr> <tr> <td>Chang-Beom AHN</td> <td>12/28/2012</td> </tr> <tr> <td>Gwang Hoon PARK</td> <td>12/27/2012</td> </tr> <tr> <td>Seung Ryong KOOK</td> <td>01/01/2013</td> </tr> <tr> <td>Sea-Nae PARK</td> <td>01/02/2013</td> </tr> <tr> <td>Kwang-Su JEONG</td> <td>01/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hae Chul CHOI	12/26/2012	Se Yoon JEONG	01/02/2013	Sung-Chang LIM	01/02/2013	Jin Soo CHOI	01/02/2013	Jin Woo HONG	01/02/2013	Dong Gyu SIM	01/02/2013	Seoung-Jun OH	01/02/2013	Chang-Beom AHN	12/28/2012	Gwang Hoon PARK	12/27/2012	Seung Ryong KOOK	01/01/2013	Sea-Nae PARK	01/02/2013	Kwang-Su JEONG	01/02/2012
Name	Execution Date																										
Hae Chul CHOI	12/26/2012																										
Se Yoon JEONG	01/02/2013																										
Sung-Chang LIM	01/02/2013																										
Jin Soo CHOI	01/02/2013																										
Jin Woo HONG	01/02/2013																										
Dong Gyu SIM	01/02/2013																										
Seoung-Jun OH	01/02/2013																										
Chang-Beom AHN	12/28/2012																										
Gwang Hoon PARK	12/27/2012																										
Seung Ryong KOOK	01/01/2013																										
Sea-Nae PARK	01/02/2013																										
Kwang-Su JEONG	01/02/2012																										
RECEIVING PARTY DATA																											
<table border="1"> <tr> <td>Name:</td> <td>ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE</td> </tr> <tr> <td>Street Address:</td> <td>161 Gajeong-dong, Yuseong-gu</td> </tr> <tr> <td>City:</td> <td>Daejeon</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>305-700</td> </tr> </table>		Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE	Street Address:	161 Gajeong-dong, Yuseong-gu	City:	Daejeon	State/Country:	KOREA, REPUBLIC OF	Postal Code:	305-700																
Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE																										
Street Address:	161 Gajeong-dong, Yuseong-gu																										
City:	Daejeon																										
State/Country:	KOREA, REPUBLIC OF																										
Postal Code:	305-700																										
<table border="1"> <tr> <td>Name:</td> <td>KWANGWOON UNIVERSITY INDUSTRY-ACADEMIC COLLABORATION FOUNDATION</td> </tr> <tr> <td>Street Address:</td> <td>447-1, Wolgye-dong, Nowon-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>139-701</td> </tr> </table>		Name:	KWANGWOON UNIVERSITY INDUSTRY-ACADEMIC COLLABORATION FOUNDATION	Street Address:	447-1, Wolgye-dong, Nowon-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF	Postal Code:	139-701																
Name:	KWANGWOON UNIVERSITY INDUSTRY-ACADEMIC COLLABORATION FOUNDATION																										
Street Address:	447-1, Wolgye-dong, Nowon-gu																										
City:	Seoul																										
State/Country:	KOREA, REPUBLIC OF																										
Postal Code:	139-701																										
<table border="1"> <tr> <td>Name:</td> <td>UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY</td> </tr> <tr> <td>Street Address:</td> <td>26 Kyungheedaero, Dongdaemun-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> </table>		Name:	UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY	Street Address:	26 Kyungheedaero, Dongdaemun-gu	City:	Seoul																				
Name:	UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY																										
Street Address:	26 Kyungheedaero, Dongdaemun-gu																										
City:	Seoul																										

OP \$40.00 13738463

State/Country:	KOREA, REPUBLIC OF
Postal Code:	130-701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13738463

#### CORRESPONDENCE DATA

Fax Number: 5713275452  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 571-327-5450  
 Email: ipntlaw@ipntlaw.com  
 Correspondent Name: IP & T GROUP LLP  
 Address Line 1: 8230 Leesburg Pike  
 Address Line 2: Suite 650  
 Address Line 4: Vienna, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	BPP-2011-0400-USC1
NAME OF SUBMITTER:	Myung Soo Kim
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3  
 source=BPP-2011-0400-USC1-Assignment#page1.tif  
 source=BPP-2011-0400-USC1-Assignment#page2.tif  
 source=BPP-2011-0400-USC1-Assignment#page3.tif

Attorney Docket No.: \_\_\_\_\_

**ASSIGNMENT OF AND DECLARATION FOR APPLICATION  
FOR UNITED STATES LETTERS PATENT**

WHEREAS Hae Chul CHOI, Se Yoon JEONG, Sung-Chang LIM, Jin Soo CHOI, Jin Woo HONG, Dong Gyu SIM, Seoung-Jun OH, Chang-Beom AHN, Gwang Hoon PARK, Seung Ryong KOOK, Sea-Nae PARK, Kwang-Su JEONG, hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to IMAGE ENCODER AND DECODER USING UNIDIRECTIONAL PREDICTION,

[ X ] said application being attached hereto;  
[ ] said application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_, as Application Serial No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable);  
[ ] the specification of which was filed under the Patent Cooperation Treaty on \_\_\_\_\_, Serial No. \_\_\_\_\_, the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute whose post office address is 161 Gajeong-dong, Yuseong-gu, Daejeon-si 305-700 Republic of Korea, KWANGWOON UNIVERSITY INDUSTRY-ACADEMIC COLLABORATION FOUNDATION, a university of Republic of Korea whose post office address is 447-1, Wolgye-dong, Nowon-gu, 139-701, Republic of Korea, and UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY, a university of Republic of Korea, whose post office address is 26 Kyungheedaero, Dongdaemun-gu, Seoul, 130-701, Republic of Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.


AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor 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.

**ASSIGNORS (INVENTORS):**

Signature:  Date: 2012.12.26  
Printed or Typed Name: Hae Chul CHOI

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS  
PATENT

Signature: Se Yoon Jeong Date: Jan. 2, 2013

Printed or Typed Name: Se Yoon JEONG

Signature:  Date: Jan. 2, 2013

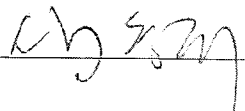
Printed or Typed Name: Sung-Chang LIM

Signature:  Date: Jan. 2, 2013

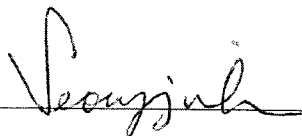
Printed or Typed Name: Jin Soo CHOI

Signature:  Date: Jan. 2, 2013

Printed or Typed Name: Jin Woo HONG

Signature:  Date: Jan. 2, 2013

Printed or Typed Name: Dong Gyu SIM

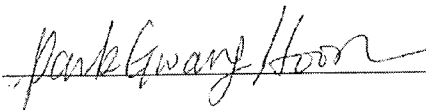
Signature:  Date: Jan. 2, 2013

Printed or Typed Name: Seoung-Jun OH


Signature:  Date: Dec. 28, 2012

Printed or Typed Name: Chang-Beom AHN

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

Signature:  Date: Dec 27, 2012


Printed or Typed Name: Gwang Hoon PARK

Signature:  Date: 01-01-2013

Printed or Typed Name: Seung Ryong KOOK

Signature:  Date: Jan, 2, 2013

Printed or Typed Name: Sea-Nae PARK

Signature:  Date: Jan 2 2013

Printed or Typed Name: Kwang-Su JEONG