

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAESEOK KIM	03/03/2015
YUNPYO HONG	03/03/2015
JUWON BYUN	02/17/2015
YOUNG JO KIM	02/17/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY
<b>Street Address:</b>	YONSEI UNIVERSITY
<b>Internal Address:</b>	50 YONSEI-RO, SEODAEMUN-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	120-749
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14625160
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(619)235-0398
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	619-238-1900
<b>Email:</b>	docketing@procopio.com
<b>Correspondent Name:</b>	PROCOPIO, CORY, HARGREAVES & SAVITCH LLP
<b>Address Line 1:</b>	525 B STREET
<b>Address Line 2:</b>	SUITE 2200
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92101
<b>ATTORNEY DOCKET NUMBER:</b>	122296-013UT1
<b>NAME OF SUBMITTER:</b>	MAINAK H. MEHTA
<b>SIGNATURE:</b>	/Mainak H. Mehta/
<b>DATE SIGNED:</b>	03/19/2015
<b>Total Attachments: 3</b>	

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## Assignment

Whereas, I, Jaeseok KIM of (Shindorim-dong, Shindorim 4-cha e-pyeonhan Sesang) 1104-502, 16-15, Gyeongin-ro 65-gil, Guro-gu, Seoul 152-785, Republic of Korea; YunPyo HONG of (Seocho-dong Shindonga Apt.) 5-302, 130, Saimdang-ro, Seocho-gu, Seoul 137-772, Republic of Korea; Juwon BYUN of (Jongam-dong, SK Apt.) 104-1108, 53, Jongam-ro 24ga-gil, Seongbuk-gu, Seoul 136-781, Republic of Korea; and Young Jo KIM of (Gwean-dong, Mirim Hometown) 302-ho, 42, Gyeongin-ro 535beon-gil, Sosa-gu, Bucheon-si, Gyeonggi-do 422-826, Republic of Korea, hereinafter called assignor, have invented certain improvements in TSM RATE-DISTORTION OPTIMIZING METHOD, ENCODING METHOD AND DEVICE USING THE SAME, AND APPARATUS FOR PROCESSING PICTURE and executed an application for Letters Patent of the United States of America therefor; and

Whereas, Industry-Academic Cooperation Foundation, Yonsei University of Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES & SAVITCH LLP of 525 B Street Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 14/625,160 and Confirmation number 2948, filed February 18, 2015) the application number, confirmation number and filing date of said application when known.

Date:

Mar. 3, 2015

s/ Jaeseok KIM

Date:

2015-02-19

s/ Young Jo KIM

## Assignment

Whereas, J. Jaeseok KIM of (Shindorim-dong, Shindorim 4-cha (overseas Seosang) 1104-302, 16-15, Gyeongin-ro 63-gil, Guro-gu, Seoul 152-785, Republic of Korea; YunPyo HONG of (Seochu-dong Shindonga Apt.) 5-302, 150, Saundang-ro, Seocho-gu, Seoul 137-772, Republic of Korea; Juwon BYUN of (Jongam-dong, SK Apt.) 104-1108, 53, Jongam-ro 20be-gil, Seongbuk-gu, Seoul 139-781, Republic of Korea; and Young Jo KIM of (Gyeon-dong, Myin Hometown) 302-bo, 47, Gyeongin-ro 335beon-gil, Soosa-gu, Bocheon-si, Gyeonggi-do 427-826, Republic of Korea, hereinafter called assignor, have invented certain improvements in TSM RATE-DISTORTION OPTIMIZING METHOD, ENCODING METHOD AND DEVICE USING THE SAME, AND APPARATUS FOR PROCESSING PICTURE and executed an application for Letters Patent of the United States of America therefor; and

Whereas, Industry-Academic Cooperation Foundation, Yonsei University of Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. 119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

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Date: 2015 2/17

Juwon Byun

s/ Juwon BYUN

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §264)

## Assignment

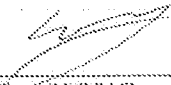
Whereas, I, Jaeseok KIM of (Shindorim-dong, Shindorim 4-cha e-pyeonghan Sesang) 1104-502, 16-15, Gyeongin-ro 65-gil, Guro-gu, Seoul 152-785, Republic of Korea; YunPyo HONG, of (Seocho-dong Shindonga Apt.) 5-302, 130, Saimdang-ro, Seocho-gu, Seoul 137-772, Republic of Korea; Juwon BYUN, of (Jongam-dong, SK Apt.) 104-1108, 53, Jongam-ro 24ga-gil, Seongbuk-gu, Seoul 136-781, Republic of Korea; and Young Jo KIM, of (Gweam-dong, Mirim Hometown) 302-ho, 42, Gyeongin-ro 535beon-gil, Sosa-gu, Bucheon-si, Gyeonggi-do 422-826, Republic of Korea, hereinafter called assignor, have invented certain improvements in TSM RATE-DISTORTION OPTIMIZING METHOD, ENCODING METHOD AND DEVICE USING THE SAME, AND APPARATUS FOR PROCESSING PICTURE and executed an application for Letters Patent of the United States of America therefor; and

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I, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

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Date: 2015-03-03


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s/ YunPyo HONG

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)