

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4762514

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SEUNGHEE HAN	09/22/2014
GANG XIONG	09/18/2014
ALEXEY KHORYAEV	09/18/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTEL IP CORPORATION
<b>Street Address:</b>	2200 MISSION COLLEGE BLVD.
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15202264
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)566-0750
<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>	8015666633
<b>Email:</b>	michelle.orton-brown@tnw.com
<b>Correspondent Name:</b>	THORPE NORTH & WESTERN LLP
<b>Address Line 1:</b>	P.O. BOX 1219
<b>Address Line 4:</b>	SANDY, UTAH 84091
<b>ATTORNEY DOCKET NUMBER:</b>	P66304C
<b>NAME OF SUBMITTER:</b>	ALEX W. HAYMOND
<b>SIGNATURE:</b>	/Alex W. Haymond/
<b>DATE SIGNED:</b>	01/05/2018
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**SEUNGHEE HAN; GANG XIONG; ALEXEY KHORYAEV**

hereby sell, assign, and transfer to:

**Intel IP Corporation**

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the International application entitled:

**TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS**

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 26, 2014 as

US Application Number 13/316,180 and

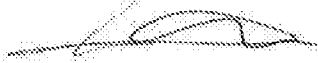
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said International application and all related applications (e.g. national phase applications, divisional applications, continuation applications, reexaminations, reissues, and the like) that have been or shall be filed in the United States and/or all foreign countries on said inventions and improvements, as well as in and to all rights of priority resulting from the filing of said International application;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and

improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.



Seunghee Han

09/22/14  
(Today's Date)

Gang Xiong

(Today's Date)

Alexey Khoryaev


(Today's Date)

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\_\_\_\_\_  
Seunghee Han

\_\_\_\_\_  
(Today's Date)

  
\_\_\_\_\_  
Gang Xiong

09/18/2014  
\_\_\_\_\_  
(Today's Date)

\_\_\_\_\_  
Alexey Khoryaev

\_\_\_\_\_  
(Today's Date)

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\_\_\_\_\_  
Seunghee Han

\_\_\_\_\_  
(Today's Date)

\_\_\_\_\_  
Gang Xiong

\_\_\_\_\_  
(Today's Date)

  
\_\_\_\_\_  
Alexey Khorzayev

*September 18, 2014*  
\_\_\_\_\_  
(Today's Date)