## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5665763

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HONG HE	02/12/2019
GANG XIONG	02/13/2019
ALEXEI DAVYDOV	02/14/2019
DAE WON LEE	02/09/2019
HWAN-JOON KWON	03/11/2019

#### RECEIVING PARTY DATA

Name:	INTEL IP CORPORATION
Street Address:	2200 MISSION COLLEGE BLVD.
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16349251

#### **CORRESPONDENCE DATA**

Fax Number: (801)566-0750

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.

Phone: 8015666633

Email: michelle.orton-brown@tnw.com **Correspondent Name:** THORPE NORTH & WESTERN LLP

P.O. BOX 1219 Address Line 1: Address Line 4: SANDY, UTAH 84091

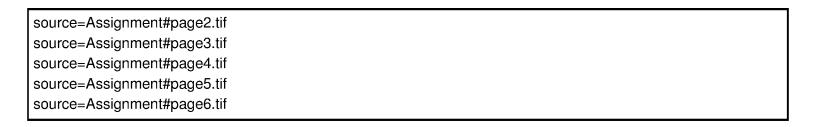
ATTORNEY DOCKET NUMBER:	D144468.PCT.US
NAME OF SUBMITTER:	ALEX W. HAYMOND
SIGNATURE:	/Alex W. Haymond/
DATE SIGNED:	08/13/2019

**Total Attachments: 6** 

source=Assignment#page1.tif

**PATENT** REEL: 050037 FRAME: 0245

505618961



PATENT REEL: 050037 FRAME: 0246

# ASSIGNMENT

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

# HONG HE; ALEXEI DAVYDOV; GANG XIONG; DAE WON LEE; HWAN-JOON KWON

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 other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

#### BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM

(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	10-MAY-2019	as	
U.S.	Application Number	16/349,251	and
COUNTRY or Internation	al Office		

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

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and 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 Additional Applications, 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

PATENT REEL: 050037 FRAME: 0247 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

He Hong	02/12/2019
HONG HE	Date signed
GANG XIONG	Date signed
ALEXEI DAVYDOV	Date signed
DAE WON LEE	Date signed
HWAN-JOON KWON	Date signed

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

HONG HE	Date signed
	02/13/2019
GANG XIONG	Date signed
ALEXEI DAVYDOV	Date signed
DAE WON LEE	Date signed
HWAN-JOON KWON	Date signed

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

HONG HE	Date signed
GANG XIONG	Date signed
<u> </u>	Feb 14, 2019
ALEXELDAVYDOV	Date signed
DAE WON LEE	Date signed
HWAN-JOON KWON	Date signed

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

HONG HE	Date signed
GANG XIONG	Date signed
ALEXEI DAVYDOV	Date signed
DAE WON LEE	
HWAN-JOON KWON	Date signed

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

HONG HE	Date signed
GANG XIONG	Date signed
ALEXEI DAVYDOV	Date signed
DAE WON LEE	Date signed
-318	3/11/2019
HWAN-JOON KWON	Date signed