507134995 02/17/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7181837

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GANG XIONG	03/21/2018
RALF BENDLIN	03/25/2018
ALEXI DAVYDOV	04/06/2018
YUSHU ZHANG	03/22/2018
SAMEER PAWAR	03/22/2018
WOOK BONG LEE	03/21/2018
JONG-KAE FWU	03/21/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16473563

CORRESPONDENCE DATA

Fax Number: (202)371-2540

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: 2023712600

Email: myoung@sternekessler.com

Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Address Line 1: 1100 NEW YORK AVENUE, N.W.

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	6607.0140001	
NAME OF SUBMITTER:	AMIRALI SHARIFI	
SIGNATURE:	/Amirali Sharifi, #68,887/	
DATE SIGNED:	02/17/2022	

PATENT REEL: 059034 FRAME: 0690

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Total Attachments: 14 source=6607.0140001 - Assignment (Parent)#page1.tif source=6607.0140001 - Assignment (Parent)#page2.tif source=6607.0140001 - Assignment (Parent)#page3.tif source=6607.0140001 - Assignment (Parent)#page4.tif source=6607.0140001 - Assignment (Parent)#page5.tif source=6607.0140001 - Assignment (Parent)#page6.tif source=6607.0140001 - Assignment (Parent)#page7.tif source=6607.0140001 - Assignment (Parent)#page8.tif source=6607.0140001 - Assignment (Parent)#page9.tif source=6607.0140001 - Assignment (Parent)#page10.tif source=6607.0140001 - Assignment (Parent)#page11.tif source=6607.0140001 - Assignment (Parent)#page12.tif source=6607.0140001 - Assignment (Parent)#page13.tif source=6607.0140001 - Assignment (Parent)#page13.tif source=6607.0140001 - Assignment (Parent)#page13.tif

PATENT REEL: 059034 FRAME: 0691

ASSIGNMENT

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

Gang Xiong; Ralf Bendlin; Alexei Davydov; Yushu Zhang; Sameer Pawar; Wook Bong Lee; Jong-Kae Fwu

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:

TRACKING REFERENCE SIGNALS FOR NEW RADIO

(I hereby authorize and	request any aftorney ha	ving appropriate author	ity from the assignee to ins	eri on the
designated lines below, t	he filing date and applic	cation number of said ap	plication when known.)	

which was filed on	22 March 201	8	as	
International Office COUNTRY or International Office	Application Number	PCT/US2018023890		нис

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

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.

79	03/21/2018
Gang Xiong	Date signed (MM/DD/YY)
Ralf Bendlin	Date signed (MM/DD/YY)
Alexei Davydov	Date signed (MM/DD/YY)
Yushu Zhang	Date signed (MM/DD/YY)
Sameer Pawar	Date signed (MM/DD/YY)
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	International Office		PCT/US2018/023	8 <u>90</u> and

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PATENT REEL: 059034 FRAME: 0694

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Gang Xiong	Date signed (MM/DD/YY)
Will Manual Control	3-25-12
Ralf Bendlin	Date signed (MM/DD/YY)
Alexei Davydov	Date signed (MM/DD/YY)
Yushu Zhang	Date signed (MM/DD/YY)
Sameer Pawar	Date signed (MM/DD/YY)
Wook Bong Lee	Date signed (MM/DD/YY)
Jong-Kae Fwu	Date signed (MM/DD/YY)

appropriation of the file

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<u>Infernational Office</u> COUNTRY or International O		PCT/US2018/023890 as	nd
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nd in and to said application and all Add	itional Applications, and all othe	er patent applications that have been or si	iall b
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Gang Xiong	Date signed (MM/DD/YY)
Ralf Bendlin	Date signed (MM/DD/YY)
l	04/06/18
Alexei/Bavydov	Date signed (MM/DD/YY)
Yashu Zhang	Date signed (MM/DD/YY)
Sameer Pawar	Date signed (MM/DD/YY)
Wook Bong Lee	Date signed (MM/DD/YY)
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(I berely 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	ille maile diduine	ZZ IVIA CN Z	J10	. 98
International		Application Number	PCT/US2018023890	

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and in and to said application and all Additional Applications, and all other parent applications that have been or shall be filled 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 reisened parents 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 berein "Additional Applications" includes but is not fimited to design, utility, utility model, divisional, continuing, continuation-in-past, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

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Garage Stark	3/22/2018 Date signed (MM/DD/YY)
Sameer Powar	Date signed (MM/DD/YY)
Wook Bong Lee	Date signed (MM/DD/YY)
Joaz-Kae Fwa	Date signed (MM/DD/YY)

Fago 2 of 2

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Page Lof 2

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Page 2 of 2