### 507151874 02/28/2022

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7198718

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the A TYPO IN THE TITLE. SHOULD BE HISTORY AUGMENTED SYNCHRONIZATION SIGNAL BASED ANTENNA BEAM SELECTION previously recorded on Reel 057415 Frame 0404. Assignor(s) hereby confirms the TITLE SHOULD BE: HISTORY AUGMENTED SYNCHRONIZATION SIGNAL BASED ANTENNA BEAM SELECTION.

### **CONVEYING PARTY DATA**

Name	Execution Date
VISHWESH PRATAP REGE	07/18/2021
JYOTHI KIRAN VATTIKONDA	07/19/2021
MIHIR VIJAY LAGHATE	08/31/2021

#### **RECEIVING PARTY DATA**

Name:	QUALCOMM INCORPORATED		
Street Address:	5775 MOREHOUSE DRIVE		
City:	SAN DIEGO		
State/Country:	CALIFORNIA		
Postal Code:	92121-1714		

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

Property Type	Number	
Application Number:	17339494	

### **CORRESPONDENCE DATA**

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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NAME OF SUBMITTER:	R. ROSS VIGUET			
SIGNATURE:	/R. ROSS VIGUET/			
DATE SIGNED:	02/28/2022			

**Total Attachments: 8** 

PATENT REEL: 059303 FRAME: 0351

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United States Patent and Trademark Office





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#### PATENT ASSIGNMENT COVER SHEET

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hamana	SUBMISSION TYPE:	NEW ASSIGNMENT
· · · · · · · · · · · · · · · · · · ·	NATURE OF CONVEYANCE:	ASSIGNMENT

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JYOTHI KIRAN VATTIKONDA	07/19/2021
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#### PROPERTY NUMBERS Total: 1

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#### **CORRESPONDENCE DATA**

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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.

Correspondent Name: QUALCOMM/NORTON ROSE FULBRIGHT

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ATTORNEY DOCKET NUMBER:  QLXX.P1485US/1001167578			
NAME OF SUBMITTER:	R. ROSS VIGUET		
Signature: /R. ROSS VIGUET/			
Date:	09/08/2021		
Total Attachments: 4 source=204451 Assignment#page1.tif source=204451 Assignment#page2.tif source=204451 Assignment#page3.tif source=204451 Assignment#page4.tif			
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 $\begin{array}{c} \textbf{PATENT} \\ \textbf{REEL: 059303 FRAME: 0354} \end{array} \\ ^{\prime 2}$ 

#### ASSIGNMENT

WHEREAS, WE,

- 1. **Vishwesh Pratap Rege,** having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
- 2. **Jyothi Kiran Vattikonda**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
- 3. **Mihir Vijay Laghate,** having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to HISTORY AUGMENTED SYNCHRONIZATION SIGNAL BASED ANTENNA <u>BEAM SELECTION</u> BEAM SELECTION (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 17/339,494 filed June 4, 2021, Qualcomm Reference Number 204451, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 63/037,403, filed June 10, 2020, Qualcomm Reference Number 204451P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Sun Diggo, CA, on H18/2021 V.P. RUSK

City, State Date VISHWESH PRATAP REGE

PATENT Sustance Automote Number 20451 Page 1 of 3

AND WE HEVERY covering that WE will not execute any writing or do any act whateverse conflicing with these presents.

Done at 1990 in	200				
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Cin	v. State				A
			Date	JYOTHI KIRAN S	/ATTIKONDA
Done at					
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f in	State	***************************************		***	
****			Oute	MIHIR VUAY LA	WHATE

#### PATENT

Qualcomm Reference Number: 204451

'age 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	, 08		JYOTHI KIRAN VATTIKONDA
	City, State	Date	
Done at	San Dieso, CA , on Circ State	8/31/202)	MILLOGLOTA MIHIR VBAY LAGHATE

PATENT REEL: 059303 FRAME: 0358

RECORDED: 02/28/2022