

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4636259

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIBING WANG	09/22/2017
ERIK STAUFFER	09/22/2017
AAMIR AKRAM	10/06/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOOGLE INC
<b>Street Address:</b>	1600 AMPHITHEATRE PARKWAY
<b>City:</b>	MOUNTAIN VIEW
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94043
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15694269
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	Todd@colbynipper.com
<b>Correspondent Name:</b>	COLBY NIPPER
<b>Address Line 1:</b>	291 EAST SHORE DRIVE
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	EAGLE, IDAHO 83616
<b>ATTORNEY DOCKET NUMBER:</b>	20233300US
<b>NAME OF SUBMITTER:</b>	MICHAEL K. COLBY
<b>SIGNATURE:</b>	/Michael K. Colby/
<b>DATE SIGNED:</b>	10/11/2017
<b>Total Attachments: 6</b>	
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## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Jibing Wang**  
Saratoga, CA 95070, USA

have invented **Downlink-Only Fifth Generation New Radio (Docket No. 20233300US)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America, filed on September 1, 2017 and given Patent Application Number 15/694,269.

WHEREAS, GOOGLE INC., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, USA, desires to acquire the entire right, title and interest in and to said inventions, applications and Letters Patent to be granted and issued thereon;

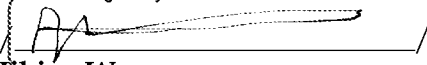
NOW, THEREFORE, I, the said ASSIGNOR, have assigned and do hereby assign, transfer and set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said inventions and all improvements thereon, in and to said patent application for Letters Patent thereon, in and to patent applications pertaining to or based upon said inventions and applications, including divisional and continuing applications and continuations-in-part, and in and to any and all Letters Patent which may be granted and issued on said inventions and applications, or any of them, not only for, to and in the United States of America, its territories and possessions, but for, to and in all countries foreign thereto, together with and including all priority rights based upon any and all applications in the United States of America covered by this Assignment.

And for the above-named considerations, I do hereby agree that I will, at the request of said ASSIGNEE, execute any and all applications for Letters Patent for said inventions and any and all other papers and documents and do all other and further lawful acts that said ASSIGNEE may deem necessary or desirable to obtain Letters Patent on said inventions, to secure the grant of such Letters Patent and to perfect and vest in the ASSIGNEE the entire right, title and interest in the inventions, applications and Letters Patent.

And for the above-named considerations, I do hereby authorize and empower the ASSIGNEE, its successors and assigns, to apply for and obtain, in its or their own names, Letters Patent for the said

inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

DocuSigned by:  
  
Jibing Wang

9/22/2017

Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Erik Stauffer**  
Sunnyvale, CA 94086, USA

have invented **Downlink-Only Fifth Generation New Radio (Docket No. 20233300US)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America, filed on September 1, 2017 and given Patent Application Number 15/694,269.

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NOW, THEREFORE, I, the said ASSIGNOR, have assigned and do hereby assign, transfer and set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said inventions and all improvements thereon, in and to said patent application for Letters Patent thereon, in and to patent applications pertaining to or based upon said inventions and applications, including divisional and continuing applications and continuations-in-part, and in and to any and all Letters Patent which may be granted and issued on said inventions and applications, or any of them, not only for, to and in the United States of America, its territories and possessions, but for, to and in all countries foreign thereto, together with and including all priority rights based upon any and all applications in the United States of America covered by this Assignment.

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inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

DocuSigned by:  
  
Erik Stauffer

9/22/2017

\_\_\_\_\_  
Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Aamir Akram**  
San Jose, CA 95138, USA

have invented **Downlink-Only Fifth Generation New Radio (Docket No. 20233300US)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America, filed on September 1, 2017 and given Patent Application Number 15/694,269.

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And for the above-named considerations, I do hereby authorize and empower the ASSIGNEE, its successors and assigns, to apply for and obtain, in its or their own names, Letters Patent for the said

inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

DocuSigned by:  
*Aamir Akram*  
Aamir Akram

10/6/2017

Date