

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
XIANGJUN ZHAO	11/17/2016
CEDRIC FUNG LAM	11/17/2016
SHUANG YIN	11/17/2016
CHANGHONG JOY JIANG	11/17/2016
KE DONG	11/17/2016
<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>	16351788
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)566-8437
<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>	2485668436
<b>Email:</b>	ODUDLEY@HONIGMAN.COM
<b>Correspondent Name:</b>	HONIGMAN LLP
<b>Address Line 1:</b>	650 TRADE CENTRE WAY
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	KALAMAZOO, MICHIGAN 49002
<b>ATTORNEY DOCKET NUMBER:</b>	231441-447182
<b>NAME OF SUBMITTER:</b>	ORJETA DUDLEY
<b>SIGNATURE:</b>	/Orjeta Dudley/
<b>DATE SIGNED:</b>	03/20/2019
<b>Total Attachments: 2</b>	


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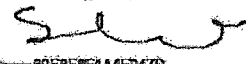
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**ASSIGNMENT**

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Xiangjun Zhao residing at 41076 Davila Ct., Fremont, California 94539, Cedric Fung Lam residing in San Carlos, CA and having a mailing address at 1600 Amphitheatre Parkway, Mountain View, California 9404, Shuang Yin residing in Mountain View, CA and having a mailing address at 1600 Amphitheatre Parkway, Mountain View, California 9404, Changhong Joy Jiang residing at 3317 Oak Bluff Lane, Dublin, California 94568 and Ke Dong residing at 2911 Requa Ct., San Jose, California 95148 hereby assign to: Google Inc., a corporation of Delaware having a place of business at: 1600 Amphitheatre Parkway, Mountain View, California 94043; and its successors and assigns (collectively hereinafter called “the Assignee”), the entire right, title and interest, including the right to sue for past infringement, throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled Optical Network Unit Wavelength Tuning, filed 11/17/2016, and assigned U.S. Serial Number 15/354,811, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DocuSigned by:  
  
649CFD2188D942D...  
Xiangjun Zhao

DocuSigned by:  
  
8B4368B37412416...  
Cedric Fung Lam

DocuSigned by:  
  
88188B1A4E147D...  
Shuang Yin

DocuSigned by:  
  
2F88F1A1AE114E5...  
Changhong Joy Jiang

DocuSigned by:  
  
A6B139C98FE2406...  
Ke Dong