

## PATENT ASSIGNMENT COVER SHEET

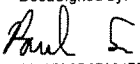
Electronic Version v1.1  
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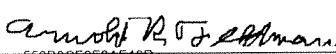
EPAS ID: PAT3854570

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAUL SWIRHUN	04/21/2016
ARNOLD FELDMAN	04/21/2016
<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>
Application Number:	15135408
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	231441-389622
<b>NAME OF SUBMITTER:</b>	BRETT A. KRUEGER
<b>SIGNATURE:</b>	/Brett A. Krueger/
<b>DATE SIGNED:</b>	05/02/2016
<b>Total Attachments: 1</b>	
source=Assignment#page1.tif	

**ASSIGNMENT**

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Paul Swirhun of 41 Los Gatos Blvd., Apt B, Los Gatos, CA 95030, and Arnold Feldman of 1685 Dolores St., San Francisco, CA 94110, 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 Phased Array Antenna Calibration, filed April 21, 2016, and assigned U.S. Serial Number 15/135,408, 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:  
  
624652CB6739475...  
Paul Swirhun

DocuSigned by:  
  
558B0CF8F9AF40D...  
Arnold Feldman