

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5694208

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ASIF KHAN	05/10/2017
JASON REDGRAVE	05/10/2017
Neeti Desai	05/10/2017
DAVID WARREN	05/12/2017
<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>	16547487
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	+1 (650) 839-5165
<b>Email:</b>	apsi@fr.com, mso@fr.com
<b>Correspondent Name:</b>	MICHAEL P. SHEPHERD
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	16113-7737002
<b>NAME OF SUBMITTER:</b>	MATTHEW O'BRIEN
<b>SIGNATURE:</b>	/Matthew O'Brien/
<b>DATE SIGNED:</b>	08/29/2019
<b>Total Attachments: 2</b>	
source=executed_assignment#page1.tif	
source=executed_assignment#page2.tif	

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 7171P9047

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Asif Khan, Jason Redgrave, Neeti Desai and David Warren,

hereby sell, assign, and transfer to Google Inc.

a corporation of Delaware,  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled:

IMAGE PROCESSOR I/O UNIT

said patent application also identified as follows (when known):

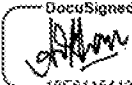
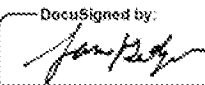
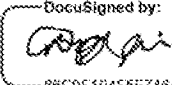
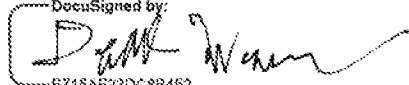
[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/595,316 filed May 15, 2017, and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or 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.

**Each Inventor: Please Sign and Date Below:**

5/10/2017 _____ Date	<div style="border: 1px solid black; padding: 2px; display: inline-block;">DocuSigned by:  18E8115442DA458...</div> _____ Asif Khan
5/10/2017 _____ Date	<div style="border: 1px solid black; padding: 2px; display: inline-block;">DocuSigned by:  1C38D7A12D95243...</div> _____ Jason Redgrave
5/10/2017 _____ Date	<div style="border: 1px solid black; padding: 2px; display: inline-block;">DocuSigned by:  86C9C5D4F557368...</div> _____ Neeti Desai
5/12/2017 _____ Date	<div style="border: 1px solid black; padding: 2px; display: inline-block;">DocuSigned by:  E745A523DC88452...</div> _____ David Warren

Assignment Document Return Address:  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
Phone: (408) 720-8300