

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4792530

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DANIEL SHAFFER	01/24/2018
ALEX JOSE	09/17/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	X DEVELOPMENT LLC
<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>	15494316
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)913-0002
<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>	312-913-0001
<b>Email:</b>	docketing@mbhb.com
<b>Correspondent Name:</b>	MCDONNELL BOEHNNEN HULBERT & BERGHOFF LLP
<b>Address Line 1:</b>	300 SOUTH WACKER DRIVE
<b>Address Line 2:</b>	SUITE 3200
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606
<b>ATTORNEY DOCKET NUMBER:</b>	17-279
<b>NAME OF SUBMITTER:</b>	ALYAMAN A. AMER
<b>SIGNATURE:</b>	/Alyaman A. Amer/
<b>DATE SIGNED:</b>	01/24/2018
<b>Total Attachments: 10</b>	
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## GOOGLE INC.

AT-WILL EMPLOYMENT, CONFIDENTIAL INFORMATION, INVENTION  
ASSIGNMENT AND ARBITRATION AGREEMENT

As a condition of my employment with Google Inc., its subsidiaries, affiliates, successors or assigns (together "Google"), and in consideration of my receipt of confidential information, my employment with Google, and my receipt of any compensation Google is paying to me, I agree to the following terms of this At-Will Employment, Confidential Information, Invention Assignment, and Arbitration Agreement (this "Agreement"):

**1. At-Will Employment.**

[REDACTED]

**2. Confidential Information.**

[REDACTED]

[REDACTED]

[REDACTED]

### 3. Inventions.

(a) Definition of Inventions. "Inventions" includes inventions, designs, developments, ideas, concepts, techniques, devices, discoveries, formulae, processes, improvements, writings, records, original works of authorship, trademarks, trade secrets, all related know-how, and any other intellectual property, whether or not patentable or registrable under patent, copyright, or similar laws.

(b) Assignment of Inventions. Except as provided in Section 3(f) below, Google Inc. will own all Inventions that I invented, developed, reduced to practice, or otherwise contributed to, solely or jointly with others, during my employment with Google (including during my off-duty hours) or with the use of Google's equipment, supplies, facilities, or Google Confidential Information, and any intellectual property rights in the Inventions (the "Assigned Inventions"). I will promptly disclose in writing to Google any Assigned Inventions and assign to Google my rights in any Assigned Inventions. I hereby irrevocably assign to Google Inc. my rights in all Assigned Inventions, and convey to Google Inc. ownership of any Assigned Inventions not yet in existence. All works of authorship made by me (solely or jointly with others) within the scope of and during my employment with Google are "works made for hire" as defined in the United States Copyright Act. The decision whether or not to commercialize or market any Assigned Inventions is within Google's sole discretion and for Google's sole benefit, and that I will not claim any consideration as a result of Google's commercialization of any such Inventions.

(c) Prior Inventions. I list in Exhibit A all Inventions that I solely or jointly made before my employment with Google (collectively, "Prior Inventions") and that I am not assigning to Google. I will not incorporate any Prior Inventions into any Assigned Inventions, product, or service of Google or otherwise use any Prior Inventions in the course of my employment with Google without its prior written permission. If I incorporate (or have incorporated) a Prior Invention into any Assigned Inventions, product, or service of Google, I hereby grant to Google a royalty-free, irrevocable, perpetual, transferable worldwide license (with the right to sublicense) to make, have made, use, import, sell, reproduce, distribute, modify, adapt, prepare derivative works of, display, perform, and otherwise exploit such Prior Invention.

(d) Maintenance of Records. I agree to keep and maintain for Google detailed and accurate written records in any format that it may specify of all Assigned Inventions that I make (solely or jointly with others) for Google. The records are and remain the sole property of Google.

(e) Securing Intellectual Property Rights. I agree to assist Google (or its designee) at Google's expense to assign, secure, and enforce all intellectual property rights in any Assigned Inventions in any and all countries, disclose to Google of all pertinent information and data, and sign any document that Google reasonably deems necessary. If Google is unable for any reason to secure my signature to any document required to assign, secure, and enforce any intellectual property rights in any Assigned Inventions, then I hereby irrevocably designate and appoint Google and its officers and agents as my agents and attorneys in fact to execute any documents on my behalf for this purpose. This

power of attorney will be considered coupled with an interest and will be irrevocable. My obligations under this Section 3(e) will continue after the termination of my employment with Google.

(f) Exception to Assignments. The provisions of this Agreement requiring disclosure and assignment of Inventions to Google do not apply to any invention that qualifies fully under the provisions of California Labor Code Section 2870 (attached hereto as Exhibit B). While employed, I will advise Google promptly in writing of any inventions that I believe meet the criteria in California Labor Code Section 2870 and that I have not disclosed on Exhibit A for a confidential ownership determination.

#### 4. Conflicting Employment.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**6. Notification.**

[REDACTED]

**7. Solicitation of Employees.**

[REDACTED]

**8. Export Statement of Assurance.**

[REDACTED]

**9. Code of Conduct.**

[REDACTED]

**10. Employee Handbook.**

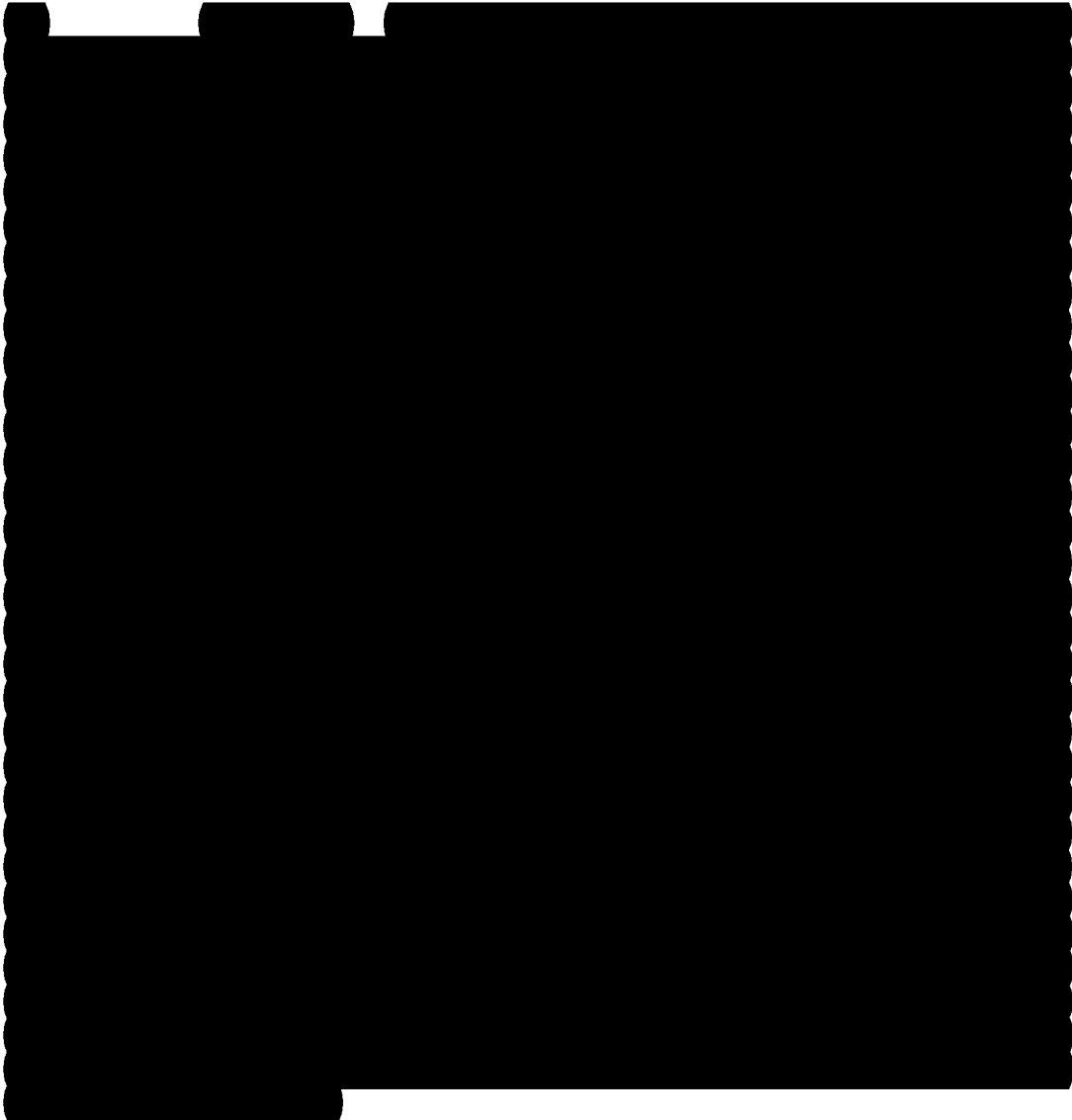
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**11. Use of Images.**

[REDACTED]

**12. Arbitration and Equitable Relief.**

[REDACTED]



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



[REDACTED]

*Eff. Date Nov. 2013  
CA Version*

Alex Jose

*E-Signature*

Alex Jose

*Name of Employee*

09/17/14

*Date*

I Agree

[REDACTED]

.....

[REDACTED]

.....

[REDACTED]

[REDACTED]

[REDACTED]

Alex Jose

*E-Signature*

Alex Jose

*Name of Employee*

09/17/14

*Date*

I Agree

.....

[Redacted]

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[Redacted]

**ASSIGNMENT**

Case No.: 17-279

Application No.: 15/494,316

Inventor(s): Alex Jose  
Daniel Shaffer

Date of Execution of Application:

Filing Date: April 21, 2017

In consideration of good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign(s) to:

**X Development LLC**

its successors and assigns, the entire right, title, and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**Aisle-based Roadmap Generation**

and identified as:

**Case No. 17-279**

in the offices of McDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

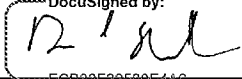
The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and application number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or

expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made. This Assignment will be governed by the substantive laws of the United States of America and the state of California (excluding any provisions thereof relating to conflicts of laws).

Signature:  Date: 1/24/2018  
Name: Daniel Shaffer