

PATENT ASSIGNMENT COVER SHEET

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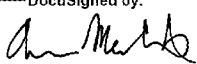
SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AURASH JONATHAN MAHBOD	06/27/2018
VACHASPATI HEMMIGE VARADARAJAN	06/26/2018
JACOB PETER SLACK	06/26/2018
LIYUAN GAO	06/26/2018
JEFF HAO	06/26/2018
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Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16020762
CORRESPONDENCE DATA	
Fax Number:	(651)735-1102
<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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Address Line 1:	1625 RADIO DRIVE
Address Line 2:	SUITE 100
Address Line 4:	WOODBURY, MINNESOTA 55125
ATTORNEY DOCKET NUMBER:	1233-498US01
NAME OF SUBMITTER:	MORGAN M. CELT
SIGNATURE:	/Morgan M. Celt/
DATE SIGNED:	06/27/2018
Total Attachments: 1	

Attorney Docket No.: 1233-498US01

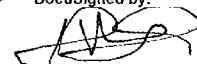
ASSIGNMENT

For good and valuable consideration, which is hereby acknowledged, We, Aurash Jonathan Mahbod, Vachaspati Hemmige Varadarajan, Jacob Peter Slack, Liyuan Gao, and Jeff Hao of 1600 Amphitheatre Parkway, Mountain View, CA 94043 hereby assign to: Google LLC, a corporation of the State 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 throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled LEVERAGING PREVIOUSLY INSTALLED APPLICATION ELEMENTS TO INSTALL AN APPLICATION, filed June 27, 2018, and assigned U.S. Serial Number 16/020,762; this assignment including said application, any provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted disclosing any of said inventions or improvements, and the right to claim priority based on the filing date of any of these applications 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 name 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, and including any claims for damages by reason of past infringement or for provisional rights, and right to sue for and collect on such claims for the Assignee's own use and benefit. We hereby authorize Google LLC, its employees, and its legal representatives to fill in the serial number and filing date above after this document has been executed.

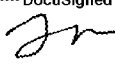
Date: 6/27/2018

DocuSigned by:

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Aurash Jonathan Mahbod

Date: 6/26/2018

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Vachaspati Hemmige Varadarajan

Date: 6/26/2018

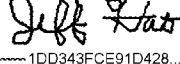
DocuSigned by:

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Jacob Peter Slack

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32CE227D84C4496...
Liyuan Gao

Date: 6/26/2018

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1DD343FCE91D428...
Jeff Hao