504665695 11/30/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ATUL KUMAR	10/25/2017
MICHAEL PETRILLO	10/25/2017

RECEIVING PARTY DATA

Name:	GOOGLE LLC	
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City:	MOUNTAIN VIEW	
State/Country:	CALIFORNIA	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15828071

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ATTORNEY DOCKET NUMBER: 030120-260910US

NAME OF SUBMITTER: RL BARLOW III

SIGNATURE: /Trey Barlow/

DATE SIGNED: 11/30/2017

Total Attachments: 2

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PATENT 504665695 REEL: 044267 FRAME: 0625

Docket No.: 030120-260910US

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, each of

Atul Kumar, a resident of Palo Alto, CA, US; and Michael Petrillo, a resident of Emerald Hills, CA, US

each hereinafter referred to as "Assignor," is an inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: SYSTEMS AND METHDS OF DEVELOPMENTS, TESTING, AND

DISTRIBUTION OF APPLICATIONS IN A COMPUTER NETWORK

Filing Date: November 30, 2017

Application No.: 15/828,071; and

WHEREAS, Google LLC, a limited liability company located at 1600 Amphitheatre Parkway, Mountain View, CA 94043, US, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by each Assignor, each Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, including any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Each Assignor further agrees that he/she will, without charge to Assignor, and at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain

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Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Morris & Kamlay LLP, 1911 Fort Myer Drive, Suite 1050, Arlington, VA 22209, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed on the date indicated.

---DocuSigned by:

Atul Kumar

10/25/2017

--- DocuSigned by:

Michael Petrillo

10/25/2017