505356594 03/04/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthew A. Armstrong	07/31/2014
Matthew B. Tolton	07/31/2014
Hossein Ahmadi	07/30/2014
Michael Entin	07/30/2014

RECEIVING PARTY DATA

Name:	GOOGLE INC.
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16291284

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ATTORNEY DOCKET NUMBER:	16113-4678002	
NAME OF SUBMITTER:	LORI L. STEWART	
SIGNATURE:	/Lori L. Stewart/	
DATE SIGNED:	03/04/2019	

Total Attachments: 3

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PATENT 505356594 REEL: 048495 FRAME: 0466

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PATENT REEL: 048495 FRAME: 0467

Attorney's Docket No.: 16113-4678001

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ASSIGNMENT and CONFIRMATION

We, <u>Matthew A. Armstrong</u>, <u>Matthew B. Tolton</u>, <u>Hossein Ahmadi</u>, and <u>Michael Entin</u>, each hereby confirm the assignment and transfer to Google Inc., a Delaware corporation having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, and its successors and assigns (collectively, "ASSIGNEE") of all of our individual and joint right, title and interest throughout the world in and to any and all inventions and improvements that are the subject or subjects of a patent application entitled

Data Delivery

that names us as inventors, and was filed in <u>United States</u> on March 14, 2014 as application no. 14/210,998 and March 14, 2013 as provisional application no. 61/783,986. The foregoing assignment and transfer occurred by operation of one or more agreements relating to our employment by Google Inc. or an affiliate of Google Inc. Should any of us have any remaining interest, we each hereby assign and transfer any right, title or interest we may have in the above-mentioned inventions and improvements anywhere in the world to ASSIGNEE.

This assignment and confirmation includes the foregoing patent application or patent; all legal equivalents thereof in any country and all patents issuing therefrom; all patents, utility models, and design registrations granted for any of said inventions and improvements throughout the world; and the right to claim priority based on the filing date of the foregoing patent application or patent 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. We authorize ASSIGNEE to apply in all countries in our names or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for the assigned inventions and improvements.

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PATENT REEL: 048495 FRAME: 0468

EchoSion Transaction Number: XCCN7S72IX75N2O

Attorney's Docket No.: 16113-4678001

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The foregoing assignments have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the employment-related agreements existing at the time the above-mentioned inventions and improvements were made.

We hereby represent and covenant that no assignment, agreement or encumbrance has been or will be made or entered into by us that would conflict with the abovementioned assignment of the inventions and improvements to ASSIGNEE.

We further covenant for ourselves and our respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to any of the above-mentioned inventions and improvements, patent applications, patents and legal equivalents, as may be known and accessible to us; to testify as to the same in any interference, litigation, or proceeding relating thereto; and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce any of the above-mentioned applications, inventions and improvements, patents and equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Dated: ^{Jul 31, 2014}	Mathew A Armstrong (Jul 51, 2014)	
	Matthew A. Armstrong	
Dated: Jul 31, 2014	/Mathew follow (util 31, 20 H)	
	Matthew B. Tolton	
Jul 30, 2014 Dated:	Housen Arabi (Jul 30, 2014)	
	Hossein Ahmadi	

EchoSion Transaction Number: XCCN7S72IX75N2O

Attorney's Docket No.: 16113-4678001

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Dated: Jul 30, 2014

Michael Entin

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RECORDED: 03/04/2019

PATENT **REEL: 048495 FRAME: 0470**