

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MATTHEW E. KULICK	06/28/2017
	BRIAN D. CARLSTROM	06/13/2017
	DAVID SEHR	06/13/2017
RECEIVING PARTY DATA		
Name:	GOOGLE INC.	
Street Address:	1600 AMPHITHEATRE PARKWAY	
City:	MOUNTAIN VIEW	
State/Country:	CALIFORNIA	
Postal Code:	94043	
PROPERTY NUMBERS Total: 2		
Property Type	Number	
Application Number:	15636574	
Application Number:	62422556	
CORRESPONDENCE DATA		
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<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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ATTORNEY DOCKET NUMBER:	16-1246-US	
NAME OF SUBMITTER:	THOMAS J. LOOS	
SIGNATURE:	/Thomas J. Loos/	
DATE SIGNED:	06/28/2017	
Total Attachments: 2		
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ASSIGNMENT

Case No.: 16-1246-US

Application No.

Inventors: Matthew E. Kulick, Brian D. Carlstrom, and David Sehr

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Google Inc.

its successors and assigns:

(1) the entire right, title and interest in the invention or improvements of the undersigned disclosed in U.S. Patent Application No. 62/422,556, filed on November 15, 2016, entitled "Bootstrapping Profile-Guided Compilation and Verification", and

(2) the entire right, title and interest in the invention or improvements of the undersigned disclosed in the non-provisional application for Letters Patent of the United States, entitled:

Bootstrapping Profile-Guided Compilation and Verification

and identified as:

Case No. 16-1246-US

in the offices of McDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said applications 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 applications to insert in this assignment the filing date and application number of any of said applications when officially known, and the date of execution of the application.

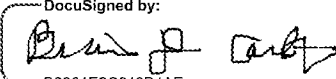
The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

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 applications 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).

DocuSigned by:

 Signature: _____ Date: 6/28/2017
 Name: Matthew E. Kulick

DocuSigned by:

 Signature: _____ Date: 6/13/2017
 Name: Brian D. Carlstrom

DocuSigned by:

 Signature: _____ Date: 6/13/2017
 Name: David Sehr