

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHIH-CHUNG CHANG	02/14/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOOGLE INC.
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<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>
Application Number:	15097177
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<b>ATTORNEY DOCKET NUMBER:</b>	20019600US
<b>NAME OF SUBMITTER:</b>	PATRICK J. WALSH, REG# 66837
<b>SIGNATURE:</b>	/PATRICK J. WALSH/
<b>DATE SIGNED:</b>	04/19/2016
<b>Total Attachments: 2</b>	
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## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Chih-Chung Chang**  
Taipei, Taiwan R.O.C.

have invented **Profiling Cache Replacement (Docket No. 20019600US)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America.

WHEREAS, GOOGLE INC., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, USA, desires to acquire the entire right, title and interest in and to said inventions, applications and Letters Patent to be granted and issued thereon;

NOW, THEREFORE, I, the said ASSIGNOR, have assigned and do hereby assign, transfer and set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said inventions and all improvements thereon, in and to said patent application for Letters Patent thereon, in and to patent applications pertaining to or based upon said inventions and applications, including divisional and continuing applications and continuations-in-part, and in and to any and all Letters Patent which may be granted and issued on said inventions and applications, or any of them, not only for, to and in the United States of America, its territories and possessions, but for, to and in all countries foreign thereto, together with and including all priority rights based upon any and all applications in the United States of America covered by this Assignment.

And for the above-named considerations, I do hereby agree that I will, at the request of said ASSIGNEE, execute any and all applications for Letters Patent for said inventions and any and all other papers and documents and do all other and further lawful acts that said ASSIGNEE may deem necessary or desirable to obtain Letters Patent on said inventions, to secure the grant of such Letters Patent and to perfect and vest in the ASSIGNEE the entire right, title and interest in the inventions, applications and Letters Patent.

And for the above-named considerations, I do hereby authorize and empower the ASSIGNEE, its successors and assigns, to apply for and obtain, in its or their own names, Letters Patent for the said

inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

DocuSigned by:  
/ Chih-Chung Chang /  
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**Chih-Chung Chang**

2/14/2016  
\_\_\_\_\_  
Date