

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mark D. Hennecke</td> <td>05/17/2013</td> </tr> <tr> <td>Liuyi Zhang</td> <td>05/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Mark D. Hennecke	05/17/2013	Liuyi Zhang	05/20/2013				
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Liuyi Zhang	05/20/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Google Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1600 Amphitheatre Parkway</td> </tr> <tr> <td>City:</td> <td>Mountain View</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94043</td> </tr> </table>		Name:	Google Inc.	Street Address:	1600 Amphitheatre Parkway	City:	Mountain View	State/Country:	CALIFORNIA	Postal Code:	94043
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CORRESPONDENCE DATA											
<p>Fax Number: 8777697945  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (512) 226-8118        Email: apsi@fr.com        Correspondent Name: Erin L. Baker        Address Line 1: FISH &amp; RICHARDSON P.C.        Address Line 2: P.O.BOX 1022        Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>											
ATTORNEY DOCKET NUMBER:	16113-3566P01/001										
NAME OF SUBMITTER:	Veronica Juarez										
Signature:	/Veronica Juarez/										

Date:

05/20/2013

Total Attachments: 2

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### ASSIGNMENT


For valuable consideration, we, Mark D. Hennecke of 10870 N Stelling Road, Apt. 24d, Cupertino, CA 95014; and Liuyi Zhang of 3903 Miramar Street, Unit E, La Jolla, CA 92037, hereby assign to Google Inc., a corporation organized under the laws of Delaware having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, and its successors and assigns (collectively, "the Assignee"), our entire right, title and interest throughout the world in the inventions and improvements which are the subject or subjects of the patent applications naming us as inventor(s), with United States application or PCT international application number 61/613,213 and a filing date of March 20, 2012 and United States application or PCT international application number 13/847,946 and a filing date of March 20, 2013. This assignment includes said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said 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. 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.

Dated: May 17, 2013

  
Mark D. Hennecke (May 17, 2013)

\_\_\_\_\_  
Mark D. Hennecke

Dated: May 20, 2013

  
LIUYI ZHANG (May 20, 2013)

\_\_\_\_\_  
Liuyi Zhang

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