

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3694560

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LAWRENCE CHANG	02/21/2013
CHAESANG JUNG	02/21/2013
JAEHYUN YEOM	02/21/2013
SANG-IL LEE	02/21/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOOGLE INC.
<b>Street Address:</b>	1600 AMPHITHEATRE PARKWAY
<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>
<b>Application Number:</b>	14992555
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	
<b>Phone:</b>	(404) 892-5005
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	PAUL E. FRANZ
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	16113-4700003
<b>NAME OF SUBMITTER:</b>	KRISTI A. HOLMLUND/
<b>SIGNATURE:</b>	/Kristi A. Holmlund/
<b>DATE SIGNED:</b>	01/13/2016
<b>Total Attachments: 6</b>	
source=4700003Assignment#page1.tif	
source=4700003Assignment#page2.tif	

source=4700003Assignment#page3.tif


source=4700003Assignment#page4.tif

source=4700003Assignment#page5.tif

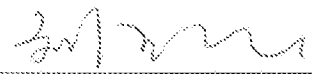
source=4700003Assignment#page6.tif

ASSIGNMENT

For valuable consideration, we, LAWRENCE CHANG of 629 Bridgeport Lane, Foster City, CA 94404, CHAESANG JUNG of 1075 Tanland Drive Apt. B, Palo Alto, CA 94303, JAEHYUN YEOM of 333 Escuela Avenue, Apt. 125, Mountain View, CA 94040, SANG-IL LEE of 104-504 SeoulSoup Hillstates, 843 Seongsu 2-ga1-dong, Seongdong-gu, Seoul, Korea, hereby assign to: Google Inc., a corporation of Delaware having a place of business at: 1600 Amphitheatre Parkway, Mountain View, California 94043; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled INDEXING APPLICATION PAGES OF NATIVE APPLICATIONS, filed 1/16/2013, and assigned U.S. Serial Number 13/742,771, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, 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 application 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; and 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.

  
\_\_\_\_\_  
LAWRENCE CHANG

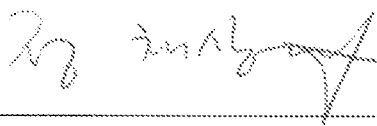
Witnessed by:

  
\_\_\_\_\_  
Signature

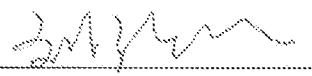
Date: Feb. 21st, 2013

Jiermin Liu  
\_\_\_\_\_  
Typed or Printed Name

18861 Arata Way  
Capertown, 95014  
\_\_\_\_\_  
Witness Address

  
\_\_\_\_\_  
CHAESANG JUNG

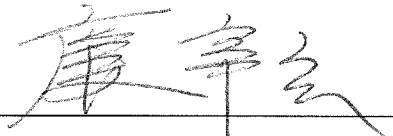
Witnessed by:

  
\_\_\_\_\_  
Signature

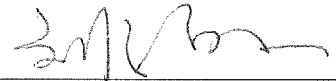
Date: Feb 21st, 2013

Jiermin Liu  
\_\_\_\_\_  
Typed or Printed Name

18861 Arata Way  
Capertown, 95014  
\_\_\_\_\_  
Witness Address

  
\_\_\_\_\_  
JAEHYUN YEOM

Witnessed by:

  
\_\_\_\_\_  
Signature

Date: Feb 21st, 2013

Jiemin Liu  
\_\_\_\_\_  
Typed or Printed Name

18861 Arata Way  
Cupertino, 95014  
\_\_\_\_\_  
Witness Address

\_\_\_\_\_  
SANG-IL LEE

Witnessed by:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Witness Address

. 12155001.doc

ASSIGNMENT

For valuable consideration, we, LAWRENCE CHANG of 629 Bridgeport Lane, Foster City, CA 94404, CHAESANG JUNG of 1075 Tanland Drive Apt. B, Palo Alto, CA 94303, JAEHYUN YEOM of 333 Escuela Avenue, Apt. 125, Mountain View, CA 94040, SANG-IL LEE of 104-504 SeoulSoup Hillstates, 843 Seongsu 2-gal-dong, Seongdong-gu, Seoul, Korea, hereby assign to: Google Inc., a corporation of Delaware having a place of business at: 1600 Amphitheatre Parkway, Mountain View, California 94043; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled INDEXING APPLICATION PAGES OF NATIVE APPLICATIONS, filed 1/16/2013, and assigned U.S. Serial Number 13/742,771, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, 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 application 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; and 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.

\_\_\_\_\_  
LAWRENCE CHANG

Witnessed by:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Witness Address

\_\_\_\_\_  
CHAESANG JUNG

Witnessed by:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Witness Address

\_\_\_\_\_  
JAEHYUN YEOM

Witnessed by:

\_\_\_\_\_  
Signature


Date: \_\_\_\_\_

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Witness Address

01 18 9  
\_\_\_\_\_  
SANG-IL LEE

Witnessed by:

  
\_\_\_\_\_  
Signature

Date: Feb. 25, 2013

Haimin Lee  
\_\_\_\_\_  
Typed or Printed Name

308-109 Worldent Hills, Uijong-dong  
Pundang-gu, Seongnam, South Korea  
\_\_\_\_\_  
Witness Address

. 12155001.doc