

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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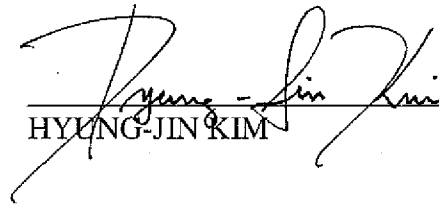
EPAS ID: PAT5422517

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Hyung-Jin Kim	11/02/2006
Simon Tong	11/02/2006
Noam M. Shazeer	11/02/2006
Michelangelo Diligenti	11/02/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Google LLC
<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>	16299130
<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>	(650) 839-5070
<b>Email:</b>	eolson@fr.com, apsi@fr.com
<b>Correspondent Name:</b>	HANS R. TROESCH
<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>	16113-0243005
<b>NAME OF SUBMITTER:</b>	ELLY OLSON
<b>SIGNATURE:</b>	/Elly Olson/
<b>DATE SIGNED:</b>	03/14/2019
<b>Total Attachments: 3</b>	
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ASSIGNMENT


For valuable consideration, we, HYUNG-JIN KIM of 1035 Lassen Terrace, Sunnyvale, CA 94086, SIMON TONG of 2400 W. El Camino Real #709, Mountain View, CA 94040, NOAM M. SHAZEER of 2400 W. El Camino Real #907, Mountain View, CA 94040, and MICHELANGELO DILIGENTI of Gablerstrasse 6, 8002 Zurich, Switzerland, 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 MODIFYING SEARCH RESULT RANKING BASED ON IMPLICIT USER FEEDBACK, filed November 2, 2006, and assigned U.S. Serial Number 11/556,143, 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.

  
HYUNG-JIN KIM


Witnessed by:

  
Signature  
Trystan Upstill  
Typed or Printed Name  
900 High School St, Unit 2329  
Mountain View, CA, 94041  
Witness Address

Date: Nov 2, 2006

  
SIMON TONG

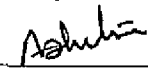
Witnessed by:

  
Signature  
Matt Cutts  
Typed or Printed Name  
554 Glen Alto Dr,  
Los Altos, CA 94024  
Witness Address

Date: 11/2/2006

  
NOAM M. SHAZEER

Witnessed by:

  
Signature  
ASHUTOSH GARG  
Typed or Printed Name  
1055 Escalan Av, #704  
Sunnyvale, CA-94085  
Witness Address

Date: 11/2/2006

*Michel Diligenti*

MICHELANGELO DILIGENTI

Witnessed by:

*Lopatenko*

Date: 1102-2006

Signature

ANDRIE LOPATENKO

Typed or Printed Name

In Boden 168

Zürich 8046

Witness Address

SWITZERLAND

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