11/14/2017 504640916

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4687636

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| Hyung-Jin Kim | 11/02/2006 |
| Simon Tong | 11/02/2006 |
| Noam M. Shazeer | 11/02/2006 |
| Michelangelo Diligenti | 11/02/2006 |

RECEIVING PARTY DATA

| Name: | GOOGLE INC. | |
|-----------------|---------------------------|--|
| Street Address: | 1600 AMPHITHEATRE PARKWAY | |
| City: | MOUNTAIN VIEW | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 94043 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15793773 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 16113-0243004 | |
|-------------------------|--------------------|--|
| NAME OF SUBMITTER: | SHANNON STADNICK | |
| SIGNATURE: | /Shannon Stadnick/ | |
| DATE SIGNED: | 11/14/2017 | |

Total Attachments: 3

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> **PATENT REEL: 044117 FRAME: 0470** 504640916

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PATENT REEL: 044117 FRAME: 0471

Attorney's Docket No.: 16113-243001 Client's Ref. No.: GP-1020-00-US

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.

Attorney's Docket No.: 16113-243001 Client's Ref. No.: GP-1020-00-US

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|---|-----------------------|
| | HYZ/NG-JIN KIM |
| | |
| Witnessed by: | C |
| Signature | Date: Nov 2, 2006 |
| Trystan Upstill Typed or Printed Name 900 High School St Unit 2 | 2329 |
| Mountain Ver, (A, 9404) Witness Address | |
| | SIMON TONO |
| | SIMON TO ADD |
| Witnessed by: | |
| Marth | Date: 11/2/2006 |
| Signature Matt Cutts | · |
| Typed or Printed Name 554 Glen Alto Dr. | |
| Los Altos, CA 94024 Witness Address | |
| | · |
| | |
| | Mille |
| | NOAM M. SHAZEER |
| Witnessed by: | |
| Signature | Date: <u>n/z/2006</u> |
| ASHUTASH GARG Typed or Printed Name | |
| loss Escalan Av, 4704 | |
| Sunnyvale, CA-94085 Witness Address | · |

Attorney's Docket No.: 16113-243001 Client's Ref. No.: GP-1020-00-US

MICHELANGELO DILIGENTI

Witnessed by:

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Date: 11-02 -2006

Signature

ANDREZ LOPATENKO

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