

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3608316

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PEI CAO	05/02/2007
NADAV EIRON	05/02/2007
SOHAM MAZUMDAR	05/02/2007
ANNA L. PATTERSON	11/09/2010
RUSSELL POWER	06/13/2007
YONATAN ZUNGER	05/02/2007
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:	14591746
CORRESPONDENCE DATA	
Fax Number:	(612)332-8352
<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>	
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Address Line 2:	PO BOX 52050
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402
ATTORNEY DOCKET NUMBER:	0058-006006
NAME OF SUBMITTER:	MELANIE GROVER
SIGNATURE:	/Melanie Grover; Reg. No. 63599/
DATE SIGNED:	11/10/2015

Total Attachments: 5

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Google Inc.** a Delaware corporation, having a place of business at 1600 Amphitheatre Parkway, Building 41, Mountain View, California 94043 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled **Index Server Architecture Using Tiered and Sharded Phrase**

("APPLICATION"), which:

is to be filed herewith.

was filed on **March 30, 2007** and now bears U.S. application serial number **11/694,780**.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

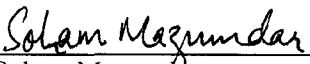
Title: Index Server Architecture Using Tiered and Sharded Phrase
Filed: March 30, 2007
Application No.: 11/694,780

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

<u>Name and Signature</u>	<u>Date of Signature</u>
 Pei Cao	<u>5/2/07</u> ,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
 Nadav Eiron	<u>05/02/2007</u> ,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
 Soham Mazumdar	<u>May 2</u> ,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
 Anna Patterson	 <u>.2007</u>

<u>Name and Signature</u>	<u>Date of Signature</u>
 Russell Power	 <u>.2007</u>

<u>Name and Signature</u>	<u>Date of Signature</u>
 Yonatan Zunger	<u>May 2</u> ,2007

Title: Index Server Architecture Using Tiered and Sharded Phrase
 Filed: March 30, 2007
 Application No.: 11/694,780

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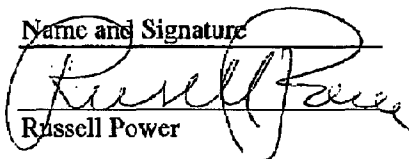
This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

<u>Name and Signature</u>	<u>Date of Signature</u>
_____	_____
Pei Cao	_____,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
_____	_____
Nadav Eiron	_____,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
_____	_____
Soham Mazumdar	_____,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
_____	_____
Anna Patterson	_____,2007

<u>Name and Signature</u>	<u>Date of Signature</u>
	_____
Russell Power	June 13, 2007

<u>Name and Signature</u>	<u>Date of Signature</u>
_____	_____
Yonatan Zunger	_____,2007

ASSIGNMENT

WHEREAS, I, Anna L. Patterson, residing at 1127 Thorntree Court, San Jose, CA ^{AP 12441 PARKER RANCH RD SARATOGA CA 950}

^{AP} ~~95120~~; made certain new and useful inventions and improvements for which I, along with my co-inventors, Pei Cao, Nadav Eiron, Soham Mazumdar, Yonatan Zunger, and Russell Power, filed an application for Letters Patent of the United States on March 30, 2007 as application serial no. 11/694,780 entitled INDEX SERVER ARCHITECTURE USING TIERED AND SHARDED PHRASE POSTING LISTS;

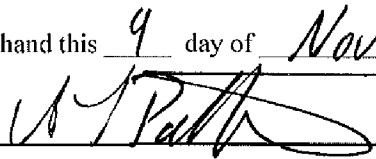
AND WHEREAS, Google Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration of one dollar (\$1.00), the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to said application, all divisionals, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of Nov, 2010.



Anna L. Patterson