504037844 10/05/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4084507

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| James C. Dehnert | 12/01/2011 |
| Matthew Harold Austern | 12/01/2011 |
| Aart J.C. Bik | 12/01/2011 |
| Grzegorz J. Czajkowski | 12/01/2011 |
| Grzegorz Malewicz | 01/18/2012 |
| Ilan Horn | 12/01/2011 |
| Naty Leiser | 12/07/2011 |

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: | 15285840 | |

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

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ATTORNEY DOCKET NUMBER: 16113-5760002

NAME OF SUBMITTER: LORI L. STEWART

SIGNATURE: /Lori L. Stewart/

DATE SIGNED: 10/05/2016

504037844 PATENT REEL: 039948 FRAME: 0022

Total Attachments: 5 source=GP-5406-00-US-CON Assignment#page1.tif source=GP-5406-00-US-CON Assignment#page2.tif

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PATENT REEL: 039948 FRAME: 0023

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, Bldg. 41, Mountain View, CA 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 following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

 - 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.

Attorney Docket No: 24207-18805

1 of 3

24207/18805/DOCS/2551507.1

PATENT REEL: 039948 FRAME: 0024 Title: Filed: Data Storage In A Graph Processing System January 19, 2012

13/353,556

Application No.:

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.

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.

| Name and Signature | Date of Signature |
|---------------------|-------------------|
| James C. Dehnert | 1 DECEMBER, 2011 |
| | |
| Name and Signature | Date of Signature |
| Moth fath | 1 DECEMBER , 2011 |
| Matthew H. Austern | |
| Name and Signature | Date of Signature |
| 11mm | 10ecember, 2011 |
| Aart J.Č. Bik | |
| Name and Signature | Date of Signature |
| 4 | I DECEMBER , 2011 |
| Grzegorz Czajkowski | |

Attorney Docket No: 24207-18805

2 of 3

24207/18805/DOCS/2551507.1

Naty Leiser

| Title: Filed: Application No.: | Data Storage In A Graph Processing System January 19, 2012 13/353,556 | |
|--------------------------------|---|---|
| Name and Signature | Date of Signature | |
| Grzegorz Malewicz | JANVARY 18,2011 201 | 5 |
| Name and Signature | Date of Signature | |
| Ilan Horn | , 2011 | |
| Name and Signature | Date of Signature | |
| | 2011 | |

Attorney Docket No: 24207-18805

3 of 3

24207/18805/DOC8/2551507.I

PATENT REEL: 039948 FRAME: 0026

| Filed: Application No.: | January 19, 2012 13/353,556 | apri i roccissing system | · |
|----------------------------|--------------------------------|--------------------------|----------|
| Name and Signature | | Date of Signature | |
| | | , 20 | <u> </u> |
| Grzegorz Malewicz | | | |
| Name and Signature | | Date of Signature | |
| 4D | • | Dec 1 .20 |)11 |
| Ilan Horn | | | |
| Name and Signature | | Date of Signature | |

Attorney Docket No: 24207-18805

Naty Leiser

3 of 3

24207/18805/DOCS/2551507.1

, 2011

| Filed: Application No.: | January 19, 2012 13/353,556 |
|-------------------------|--------------------------------|
| Name and Signature | Date of Signature |
| | ,2011 |
| Grzegorz Malewicz | |
| Name and Signature | Date of Signature |
| | , 2011 |
| Ilan Horn | |
| Name and Signature | Date of Signature |
| M | Dec 7th ,2011 |

Attorney Docket No: 24207-18805

3 of 3

24207/18805/DOCS/2551507.1

PATENT REEL: 039948 FRAME: 0028

RECORDED: 10/05/2016

Naty Leiser