PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3913029

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joseph S. Beda	02/22/2013
Grzegorz J. Czajkowski	01/04/2013
Yonggang Zhao	12/27/2012

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:	15148661

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.

Phone: 404-892-5005
Email: apsi@fr.com
Correspondent Name: PAUL E. FRANZ
Address Line 1: FISH & RICHARDSON P.C.
Address Line 2: P.O.BOX 1022
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	16113-3964002
NAME OF SUBMITTER:	KRISTI A. HOLMLUND
SIGNATURE:	/Kristi A. Holmlund/
DATE SIGNED:	06/10/2016

Total Attachments: 6
source=16113-3964001Assignment#page1.tif
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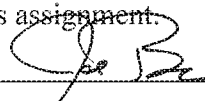
ASSIGNMENT

For valuable consideration, we, <u>JOSEPH S. BEDA III</u> of <u>2437 E. Lake Washington Boulevard, Seattle, WA 98112</u>, <u>GRZEGORZ J. CZAJKOWSKI</u> of <u>1903 Brewster Avenue, Redwood City, CA 94062</u>, <u>JERRY ZHAO</u> of <u>15 Hillbarn Court, San Mateo, CA 94403</u>, hereby assign to:

<u>Google Inc.</u>, a corporation of <u>Delaware</u> having a place of business at:

> 1600 Amphitheatre Parkway
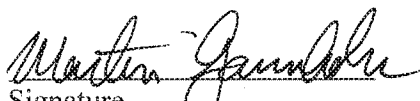> Mountain View, California 94043; and

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 <u>CLUSTERING FOR PARALLEL PROCESSING</u>, filed <u>12/27/2012</u>, and assigned U.S. Serial Number <u>13/727,943</u>, 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.

JOSEPH S. BEDA III

Witnessed by:

Signature

MARTIN GANNHOLM
Typed or Printed Name

910 FEDERAL AVE E
SEATTLE WA 98102
Witness Address

Date: 2/22/2013

.

GRZEGORZ J. CZAJKOWSKI

Witnessed by:

Signature

Typed or Printed Name

Witness Address

Date:

_____
JERRY ZHAO

Witnessed by:

_____   Date: _____
Signature

_____
Typed or Printed Name

_____

_____
Witness Address

. 22960618.doc

ASSIGNMENT

For valuable consideration, we, JOSEPH S. BEDA III of 2437 E. Lake Washington Boulevard, Seattle, WA 98112, GRZEGORZ J. CZAJKOWSKI of 1903 Brewster Avenue, Redwood City, CA 94062, JERRY ZHAO of 15 Hillbarn Court, San Mateo, CA 94403, 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 CLUSTERING FOR PARALLEL PROCESSING, filed 12/27/2012, and assigned U.S. Serial Number 13/727,943, 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.
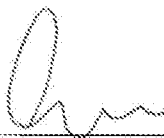
_____

JOSEPH S. BEDA III

Witnessed by:

_____   Date: _____
Signature

_____
Typed or Printed Name

_____
Witness Address

_____

GRZEGORZ J. CZAJKOWSKI
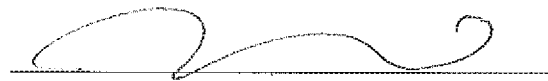
Witnessed by:

P. Javbacki   Date: _04/01/13_
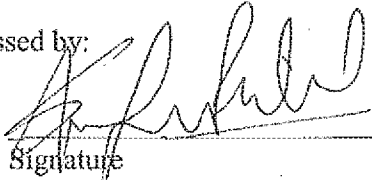Signature

PAWEL GARBACKI
Typed or Printed Name

?00B Colony St Apt6
Mountain View, CA 94043
Witness Address

_____

JERRY ZHAO

Witnessed by: _____

Signature

Date: 12/27/2012

SWAPNIL   PATIL
Typed or Printed Name

2255 Showers Drive, Apt 243,
Mountain View CA 94040
Witness Address

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PATENT
REEL: 038880 FRAME: 0359