

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

EPAS ID: PAT4764744

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAUL BROMAN	03/15/2010
JON SWEET	03/30/2010
TIM RECHIN	03/30/2010
JESSI DONG	03/30/2010
FRANK YOO	03/30/2010
BURKE CULLIGAN	04/05/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	YAHOO! INC.
<b>Street Address:</b>	701 FIRST AVENUE
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15137956
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)801-6400
<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>	212-801-9200
<b>Email:</b>	njdocket@gtlaw.com
<b>Correspondent Name:</b>	EXCALIBUR IP, LLC C/O GREENBERG TRAUER
<b>Address Line 1:</b>	MET LIFE BUILDING
<b>Address Line 2:</b>	200 PARK AVENUE
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10166
<b>ATTORNEY DOCKET NUMBER:</b>	173594.100351
<b>NAME OF SUBMITTER:</b>	JUDI CORDO
<b>SIGNATURE:</b>	/Judi Cordo/
<b>DATE SIGNED:</b>	01/08/2018

**Total Attachments: 8**

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Docket No. 085804.100350 (Y06025US00)

**ASSIGNMENT OF PATENT APPLICATION BY INVENTOR**

Whereas I, an undersigned inventor (hereinafter "INVENTOR"), have invented certain new and useful improvements as set forth in the patent application entitled:

**METHOD AND SYSTEM FOR PERFORMING BI-DIRECTIONAL SEARCH**

- for which I have executed a U.S. patent application on even date herewith
- which bears U.S. application serial No. 12/755,938, filed April 7, 2010
- for which I have executed a patent application in the country of \_\_\_\_\_ on even date herewith.
- which I have executed a U.S. provisional application on even date herewith.
- which is a U.S. provisional application which bears U.S. application serial No. \_\_\_\_\_, filed \_\_\_\_\_

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

(a) Sell, assign and transfer to Yahoo! Inc., a Delaware corporation having a place of business at 701 First Avenue, Sunnyvale, California 94089 (hereinafter "ASSIGNEE"), (1) the entire right, title and interest, and any and all revenues and rights to revenue, for any purpose, associated with commercialization, everywhere in the world, to (A) any and all inventions described in said Application, (B) said Application, (C) any patent that may be granted thereof, (D) any patent applications or patents which may claim priority of (or serve as the basis for a priority claim by) said Application (including but not limited to continuations, divisions, continuations-in-part, substitutes, reissues, reexaminations or extensions thereof, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements or treaties), and (2) the right to sue third parties for patent infringement (including but not limited to damages) accruing based on activities occurring prior to the execution date hereof.

(b) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.

(c) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, and to communicate to the ASSIGNEE any facts known to us respecting the improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional continuing and reissue applications, make all rightful oaths and generally perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

Docket No. 085804.100350 (Y06025US00)

(d) Warrant and covenant that no other assignment, license, contract, understanding, interest or other grant to any third party with respect to any of the foregoing has been made, or shall in the future be made, by or on behalf of INVENTOR.

(e) Covenant not to challenge the validity or enforceability of any of the patent applications or patents assigned to ASSIGNEE hereunder.

(f) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the INVENTOR, as well as the INVENTOR's heirs, legal representatives and assigns.

(g) Authorize and request my attorney/agent to insert above the application number in order to assist with recordal of this assignment or any other information necessary to perfect this assignment.

Docket No. 085804.100350 (Y06025US00)

IN TESTIMONY WHEREOF, I Paul Broman have executed this document on the date indicated below.

*Paul Broman*

Signature of Inventor

*3/15/10*

Date

Mableton, GA

Inventor's City, State of residence

Witnessed by:

(1) *Keith Youngblood*

Signature of Witness

*3/15/2010*

Date

Keith Youngblood

Print Witness Name

Woodstock, GA

Witness' City, State of residence

(2) *James Drenter*

Signature of Witness

*3/15/2010*

Date

James Drenter


Print Witness Name

Atlanta, Georgia

Witness' City, State of residence

Docket No. 085804.100350 (Y06025US00)

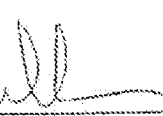
IN TESTIMONY WHEREOF, I **Jon Sweet** have executed this document on the date indicated below.

  
\_\_\_\_\_  
Signature of Inventor

2010-03-30  
\_\_\_\_\_  
Date

San Jose, CA  
\_\_\_\_\_  
Inventor's City, State of residence

**Witnessed by:**

(1)   
\_\_\_\_\_  
Signature of Witness

3/30/10  
\_\_\_\_\_  
Date

Michael Mueller  
\_\_\_\_\_  
Print Witness Name

CAMPBELL, CA  
\_\_\_\_\_  
Witness' City, State of residence

(2)   
\_\_\_\_\_  
Signature of Witness

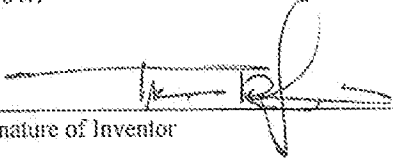
3/30/10  
\_\_\_\_\_  
Date

SHANYING LEUNG  
\_\_\_\_\_  
Print Witness Name

SAN JOSE, CA  
\_\_\_\_\_  
Witness' City, State of residence

Docket No. 085804.100350 (Y06025US00)

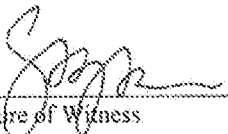
IN TESTIMONY WHEREOF, I **Tim Rechin** have executed this document on the date indicated below.

  
Signature of Inventor

3/30/2010  
Date

San Carlos, CA  
Inventor's City, State of residence


**Witnessed by:**

(1)   
Signature of Witness

3/30/10  
Date

SHANNYN TIMROTT  
Print Witness Name

REDWOOD CITY, CA  
Witness' City, State of residence

(2)   
Signature of Witness

3/30/10  
Date

TUSSANEE GARCIA-SHELTON  
Print Witness Name

San Mateo, CA  
Witness' City, State of residence

Docket No. 085804.100350 (Y06025U500)

IN TESTIMONY WHEREOF, I **Jessi Dong** have executed this document on the date indicated below.

  
\_\_\_\_\_  
Signature of Inventor

3/30/10  
\_\_\_\_\_  
Date

Los Gatos, CA  
\_\_\_\_\_  
Inventor's City, State of residence

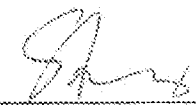
**Witnessed by:**

(1)   
\_\_\_\_\_  
Signature of Witness

3/31/10  
\_\_\_\_\_  
Date

Michael Mueller  
\_\_\_\_\_  
Print Witness Name

CAMPBELL, CA  
\_\_\_\_\_  
Witness' City, State of residence

(2)   
\_\_\_\_\_  
Signature of Witness

3/31/10  
\_\_\_\_\_  
Date

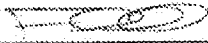
Tussanee Garcia-Shulton  
\_\_\_\_\_  
Print Witness Name

San Mateo, CA  
\_\_\_\_\_  
Witness' City, State of residence



Docket No. 085804.100350 (Y06025US00)


IN TESTIMONY WHEREOF, I **Frank Yoo** have executed this document on the date indicated below.

  
Signature of Inventor

March 30, 2010  
Date

San Francisco, CA  
Inventor's City, State of residence


**Witnessed by:**

(1)   
Signature of Witness

3/30/10  
Date

Michael Mueller  
Print Witness Name

CAMPBELL, CA  
Witness' City, State of residence

(2)   
Signature of Witness

3/30/10  
Date

TUSSANEE GARCIA-SHELTON  
Print Witness Name

San Mateo, CA  
Witness' City, State of residence

Docket No. 085804.100350 (Y06025US00)

IN TESTIMONY WHEREOF, I **Burke Culligan** have executed this document on the date indicated below.

Burke Culligan  
Signature of Inventor

4/5/10  
Date

Menlo Park, CA  
Inventor's City, State of residence

Witnessed by:

(1) [Signature]  
Signature of Witness

April 4, 2010  
Date

Scott Goldman  
Print Witness Name

San Francisco, CA  
Witness' City, State of residence

(2) [Signature]  
Signature of Witness

April 4, 2010  
Date

Justin Wismer  
Print Witness Name

Atherton, CA  
Witness' City, State of residence