

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3046381

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YAHOO! INC.	06/30/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOOGLE INC.
<b>Street Address:</b>	1600 Amphitheatre Parkway
<b>City:</b>	Mountain View
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94043
<b>PROPERTY NUMBERS Total: 5</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11694741
Application Number:	13343639
Application Number:	11756523
Application Number:	12512397
Application Number:	13448248
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)851-9348
<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>	9498510633
<b>Email:</b>	apennington@mwe.com
<b>Correspondent Name:</b>	JOHN D. MAGLUYAN
<b>Address Line 1:</b>	MCDERMOTT WILL & EMERY LLP
<b>Address Line 2:</b>	4 PARK PLAZA, SUITE 1700
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	093054-0010
<b>NAME OF SUBMITTER:</b>	JOHN D. MAGLUYAN, REG. NO. 56,867
<b>SIGNATURE:</b>	/John D. Magluyan/
<b>DATE SIGNED:</b>	09/30/2014
<b>Total Attachments: 46</b> source=Assignment#page1.tif	

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## PATENT ASSIGNMENT

This Patent Assignment ("Assignment") is entered into as of June 30, 2014 ("Effective Date") by and between Yahoo! Inc., a Delaware Corporation ("Assignor") having an address at 701 First Avenue, Sunnyvale, CA, 94089, and Google Inc., a Delaware Corporation ("Assignee") having an address at 1600 Amphitheatre Parkway, Mountain View, CA, 94043.

**WHEREAS**, Assignor owns certain patents, patent applications and/or other patent rights, including, without limitation, those listed in Exhibit I of this Assignment; and

**WHEREAS**, Assignor desires to assign to Assignee, and Assignee desires to receive, all of Assignor's right, title and interest in and to such patents, patent applications and/or other patent rights.

**NOW, THEREFORE**, pursuant to the Asset Purchase Agreement, and for good and valuable consideration given and received, the receipt and legal sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby:

- (A) irrevocably transfers, conveys and assigns to Assignee:
  - (1) the entire right, title and interest, everywhere in the world to
    - (a) the issued patents and patent applications set forth in Exhibit I,
    - (b) any patents that may issue on any patent applications set forth in Exhibit I,
    - (c) any continuations, divisionals, worldwide counterparts, reissues and renewals of any of the foregoing and any other patents or applications that issue from, arise out of, descend from, or claim priority to or have common priority with any of the foregoing, whether directly or indirectly, existing or future, and
    - (d) any results of oppositions, reexaminations, supplemental examinations, and other review procedures with respect to any of the foregoing.(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) any rights to enforce, bring actions and obtain all damages and other remedies for all past, present and future infringement of, the Assigned Patents; and
  - (3) all rights to receive royalties with respect to the Assigned Patents; and
  - (4) any and all other rights and interests arising out of, in connection with or in relation to the Assigned Patents;

[The remainder of this page intentionally left blank.]

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

ASSIGNEE

For Google Inc.

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

ASSIGNOR

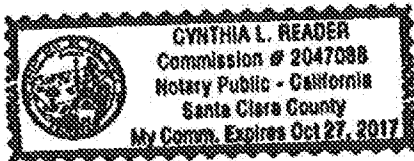
For Yahoo! Inc.

By: Romualdas Strimaitis  
Signature

ROMUALDAS STRIMAITIS  
Name

June 30, 2014  
Date

Notary Seal



STATE OF CALIFORNIA            ) ss.  
COUNTY OF SANTA CLARA    )

Subscribed and sworn to (or affirmed) before me, C. Reader, Notary Public on this 30<sup>th</sup> day of June, 2014 by Romualdas Strimaitis and proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

C. Reader  
C. Reader, Notary Public  
My Commission expires: Oct 27, 2017

[Signature Page for Patent Assignment]

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

**ASSIGNEE**

**For Google Inc.**

By: \_\_\_\_\_  
Signature

KIRK W. DAILEY  
Name

30 June 2014  
Date

**ASSIGNOR**

**For Yahoo! Inc.**

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**Notary Seal**

[Signature Page for Patent Assignment]

## EXHIBIT 1 TO PATENT ASSIGNMENT – PATENTS AND PATENT APPLICATIONS

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US5797008	US	Memory storing an integrated index of database records	Issued	08/18/1998	08/09/1996	08/09/1996
US6078923	US	Memory storing an integrated index of database records	Issued	06/20/2000	12/16/1997	08/09/1996
US8667173	US	Performing multicast communication in computer networks by using overlay routing	Issued	03/04/2014	02/04/2013	01/11/1999
2014-0105209	US	Performing multicast communication in computer networks by using overlay routing	Published	N/A	12/25/2013	01/11/1999
US8370522	US	Performing multicast communication in computer networks by using overlay routing	Issued	02/05/2013	04/17/2009	01/11/1999
US7734730	US	Content distribution system for operation over an internetwork including content peering arrangements	Issued	06/08/2010	08/05/2004	09/03/1999
60036021.0	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
60046488.1	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
1250785	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
10185164.0	EP	Content distribution system for operation over an internetwork including content peering arrangements	Pending	N/A	12/19/2000	12/20/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1250785	GB	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	GB	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
US7133928	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	11/07/2006	06/19/2003	01/11/1999
US7080157	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	07/18/2006	11/18/2002	01/01/1999
US6901445	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/31/2005	07/01/2002	09/03/1999
00961467.8	EP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Pending	N/A	09/01/2000	09/03/1999
3807981	JP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/26/2006	09/01/2000	09/03/1999
10-0524258	KR	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	10/20/2005	09/01/2000	09/03/1999
US6850987	US	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/01/2005	10/05/1999	06/01/1999
60008102.8	DE	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	EP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1183820	FR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	GB	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
4685299	JP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/18/2011	06/01/2000	06/01/1999
10-0699018	KR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	03/16/2007	06/01/2000	06/01/1999
2004-0139150	US	System for Multipoint Infrastructure Transport in a Computer Network	Published	N/A	07/10/2003	06/01/1999
US6826564	US	Scalable and Programmable Query Distribution and Collection in a Network of Queryable Devices	Issued	11/30/2004	07/06/2001	07/10/2000
US6785704	US	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	08/31/2004	07/03/2000	12/20/1999
US6735633	US	System for bandwidth allocation in a computer network	Issued	05/11/2004	08/27/1999	06/01/1999
1183834	DE	System for bandwidth allocation in a computer network	Issued	08/03/2006	06/01/2000	06/01/1999
1183834	EP	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	FR	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	GB	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
4922520	JP	System for bandwidth allocation in a computer network	Issued	02/10/2012	06/01/2000	06/01/1999
10-0699019	KR	System for bandwidth allocation in a computer network	Issued	03/16/2007	06/01/2000	06/01/1999



Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US6611872	US	Performing multicast communication in computer networks by using overlay routing	Issued	08/26/2003	06/01/1999	01/11/1999
US6415323	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	07/02/2002	12/09/1999	09/03/1999
US8214388	US	System and method for adding a storage server in a distributed column chunk data store	Issued	07/03/2012	12/19/2005	12/19/2005
US8200933	US	System and method for adding a storage server in a distributed column chunk data store	Issued	06/12/2012	11/10/2011	12/19/2005
US8060720	US	System and method for removing a storage server in a distributed column chunk data store	Issued	11/15/2011	07/29/2009	12/19/2005
US7921132	US	System for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921131	US	Method using a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921087	US	Method for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7860865	US	System of a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	12/28/2010	12/19/2005	12/19/2005
2011-0016127	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	09/20/2010	12/19/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
2011-0055215	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	11/04/2010	12/19/2005
US7587569	US	System and method for removing a storage server in a distributed column chunk data store	Issued	09/08/2009	12/19/2005	12/19/2005
US7546321	US	System and method for recovery from failure of a storage server in a distributed column chunk data store	Issued	06/09/2009	12/19/2005	12/19/2005
US7464247	US	System and method for updating data in a distributed column chunk data store	Issued	12/09/2008	12/19/2005	12/19/2005
US7457935	US	Method for a distributed column chunk data store	Issued	11/25/2008	09/13/2005	09/13/2005
US7447865	US	System and method for compression in a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US7447839	US	System for a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US8112501	US	Centralized registration for distributed social content services	Issued	02/07/2012	03/30/2007	03/30/2007
2012-0110484	US	Centralized registration for distributed social content services	Published	N/A	01/04/2012	05/31/2006
US8286086	US	On-widget data control	Issued	10/09/2012	05/31/2007	05/31/2006
US7209895	US	Methods for use in providing user ratings according to prior transactions	Issued	04/24/2007	05/19/2004	05/19/2004
US8045695	US	System for determining active co-presence of users during interactions	Issued	10/25/2011	09/29/2008	09/29/2008
US8150967	US	System and method for verified presence tracking	Issued	04/03/2012	03/24/2009	03/24/2009
US8155986	US	Collapsible itineraries	Issued	04/10/2012	10/06/2006	10/07/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US8180752	US	Apparatus and methods for managing a social media universe	Issued	05/15/2012	07/30/2009	07/30/2009
US8504545	US	Apparatus and methods for managing a social media universe	Issued	08/06/2013	04/16/2012	07/30/2009
US8413052	US	Bidded marketplace for applications	Issued	04/02/2013	02/17/2010	02/17/2010
US8620896	US	Reverse matching relationships in networks of existing identifiers	Issued	12/31/2013	12/06/2007	12/06/2007
I400624	TW	Reverse matching relationships in networks of existing identifiers	Issued	07/01/2013	11/27/2008	11/27/2008
US6128623	US	High performance object cache	Issued	10/03/2000	04/15/1998	04/15/1998
754816	AU	High performance object cache	Issued	03/13/2003	04/15/1999	04/15/1998
69915462.6	DE	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	EP	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	FR	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	GB	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
4489292	JP	High performance object cache	Issued	04/09/2010	04/15/1999	04/15/1998
US6915307	US	High performance object cache	Issued	07/05/2005	05/06/2002	04/15/1998
US6453319	US	Maintaining counters for high performance object cache	Issued	09/17/2002	04/05/2000	04/15/1998
US7451190	US	Associating multiple visibility profiles with a user of a real-time communication system	Issued	11/11/2008	01/09/2004	11/26/2003
US7743099	US	Associating multiple visibility profiles with a user of real-time communication system	Issued	06/22/2010	08/20/2008	11/26/2003
US7865308	US	User-generated activity maps	Issued	01/04/2011	12/28/2007	12/28/2007
US8548797	US	Short text language detection using geographic information	Issued	10/01/2013	10/30/2008	10/30/2008

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US7769745	US	Visualizing location-based datasets using "tag maps"	Issued	08/03/2010	12/15/2006	12/15/2006
US7412534	US	Subscription control panel	Issued	08/12/2008	02/02/2006	09/30/2005
10-1004510	KR	Automatically matching advertisements to media files	Issued	12/21/2010	09/25/2006	09/30/2005
US8108378	US	Podcast search engine	Issued	01/31/2012	02/2/2006	09/30/2005
US8527450	US	Apparatus and methods for analyzing and using short messages from commercial accounts	Issued	09/03/2013	03/24/2011	03/24/2011
US7831474	US	System and method for associating an unvalued search term with a valued search term	Issued	11/09/2010	10/28/2005	10/28/2005
US8037070	US	Background contextual conversational search	Issued	10/11/2011	06/25/2008	06/25/2008
US8635106	US	System for targeting data to users on mobile devices	Issued	01/21/2014	07/11/2007	07/11/2007
97123462	TW	System for targeting data to users on mobile devices	Published	N/A	06/24/2008	07/11/2007
US8484191	US	On-line social search	Issued	07/09/2013	12/16/2010	12/16/2010
2013-0275405	US	On-Line Social Search	Published	N/A	06/06/2013	12/16/2010
US8176509	US	Post processing video to identify interests based on clustered user interactions	Issued	05/08/2012	06/30/2009	06/30/2009
2012-0185889	US	Post processing video to identify interests based on clustered user interactions	Published	07/19/2012	03/28/2012	06/30/2009
US8452855	US	System and method for presentation of media related to a context	Issued	05/28/2013	06/27/2008	06/27/2008
2013-0297652	US	System and method for presentation of media related to a context	Published	N/A	05/24/2013	06/27/2008

## PATENT ASSIGNMENT

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**WHEREAS**, Assignor owns certain patents, patent applications and/or other patent rights, including, without limitation, those listed in Exhibit 1 of this Assignment; and

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**NOW, THEREFORE**, pursuant to the Asset Purchase Agreement, and for good and valuable consideration given and received, the receipt and legal sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby:

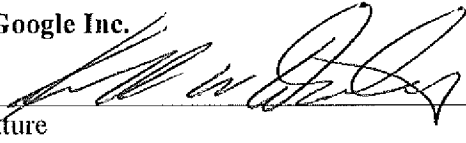
- (A) irrevocably transfers, conveys and assigns to Assignee:
  - (1) the entire right, title and interest, everywhere in the world to
    - (a) the issued patents and patent applications set forth in Exhibit 1,
    - (b) any patents that may issue on any patent applications set forth in Exhibit 1,
    - (c) any continuations, divisionals, worldwide counterparts, reissues and renewals of any of the foregoing and any other patents or applications that issue from, arise out of, descend from, or claim priority to or have common priority with any of the foregoing, whether directly or indirectly, existing or future, and
    - (d) any results of oppositions, reexaminations, supplemental examinations, and other review procedures with respect to any of the foregoing.(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) any rights to enforce, bring actions and obtain all damages and other remedies for all past, present and future infringement of, the Assigned Patents; and
  - (3) all rights to receive royalties with respect to the Assigned Patents; and
  - (4) any and all other rights and interests arising out of, in connection with or in relation to the Assigned Patents;

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IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

**ASSIGNEE**

**For Google Inc.**

By:   
Signature

KIRK W. DAILEY  
Name

30 June 2014  
Date

**ASSIGNOR**

**For Yahoo! Inc.**

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**Notary Seal**

[Signature Page for Patent Assignment]

## EXHIBIT 1 TO PATENT ASSIGNMENT – PATENTS AND PATENT APPLICATIONS

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US5797008	US	Memory storing an integrated index of database records	Issued	08/18/1998	08/09/1996	08/09/1996
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2014-0105209	US	Performing multicast communication in computer networks by using overlay routing	Published	N/A	12/25/2013	01/11/1999
US8370522	US	Performing multicast communication in computer networks by using overlay routing	Issued	02/05/2013	04/17/2009	01/11/1999
US7734730	US	Content distribution system for operation over an internetwork including content peering arrangements	Issued	06/08/2010	08/05/2004	09/03/1999
60036021.0	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
60046488.1	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
1250785	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
10185164.0	EP	Content distribution system for operation over an internetwork including content peering arrangements	Pending	N/A	12/19/2000	12/20/1999

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1250785	GB	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	GB	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
US7133928	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	11/07/2006	06/19/2003	01/11/1999
US7080157	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	07/18/2006	11/18/2002	01/01/1999
US6901445	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/31/2005	07/01/2002	09/03/1999
00961467.8	EP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Pending	N/A	09/01/2000	09/03/1999
3807981	JP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/26/2006	09/01/2000	09/03/1999
10-0524258	KR	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	10/20/2005	09/01/2000	09/03/1999
US6850987	US	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/01/2005	10/05/1999	06/01/1999
60008102.8	DE	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	EP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999



Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1183820	FR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	GB	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
4685299	JP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/18/2011	06/01/2000	06/01/1999
10-0699018	KR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	03/16/2007	06/01/2000	06/01/1999
2004-0139150	US	System for Multipoint Infrastructure Transport in a Computer Network	Published	N/A	07/10/2003	06/01/1999
US6826564	US	Scalable and Programmable Query Distribution and Collection in a Network of Queryable Devices	Issued	11/30/2004	07/06/2001	07/10/2000
US6785704	US	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	08/31/2004	07/03/2000	12/20/1999
US6735633	US	System for bandwidth allocation in a computer network	Issued	05/11/2004	08/27/1999	06/01/1999
1183834	DE	System for bandwidth allocation in a computer network	Issued	08/03/2006	06/01/2000	06/01/1999
1183834	EP	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	FR	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	GB	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
4922520	JP	System for bandwidth allocation in a computer network	Issued	02/10/2012	06/01/2000	06/01/1999
10-0699019	KR	System for bandwidth allocation in a computer network	Issued	03/16/2007	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US6611872	US	Performing multicast communication in computer networks by using overlay routing	Issued	08/26/2003	06/01/1999	01/11/1999
US6415323	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	07/02/2002	12/09/1999	09/03/1999
US8214388	US	System and method for adding a storage server in a distributed column chunk data store	Issued	07/03/2012	12/19/2005	12/19/2005
US8200933	US	System and method for adding a storage server in a distributed column chunk data store	Issued	06/12/2012	11/10/2011	12/19/2005
US8060720	US	System and method for removing a storage server in a distributed column chunk data store	Issued	11/15/2011	07/29/2009	12/19/2005
US7921132	US	System for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921131	US	Method using a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921087	US	Method for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7860865	US	System of a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	12/28/2010	12/19/2005	12/19/2005
2011-0016127	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	09/20/2010	12/19/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
2011-0055215	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	11/04/2010	12/19/2005
US7587569	US	System and method for removing a storage server in a distributed column chunk data store	Issued	09/08/2009	12/19/2005	12/19/2005
US7546321	US	System and method for recovery from failure of a storage server in a distributed column chunk data store	Issued	06/09/2009	12/19/2005	12/19/2005
US7464247	US	System and method for updating data in a distributed column chunk data store	Issued	12/09/2008	12/19/2005	12/19/2005
US7457935	US	Method for a distributed column chunk data store	Issued	11/25/2008	09/13/2005	09/13/2005
US7447865	US	System and method for compression in a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US7447839	US	System for a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US8112501	US	Centralized registration for distributed social content services	Issued	02/07/2012	03/30/2007	03/30/2007
2012-0110484	US	Centralized registration for distributed social content services	Published	N/A	01/04/2012	05/31/2006
US8286086	US	On-widget data control	Issued	10/09/2012	05/31/2007	05/31/2006
US7209895	US	Methods for use in providing user ratings according to prior transactions	Issued	04/24/2007	05/19/2004	05/19/2004
US8045695	US	System for determining active co-presence of users during interactions	Issued	10/25/2011	09/29/2008	09/29/2008
US8150967	US	System and method for verified presence tracking	Issued	04/03/2012	03/24/2009	03/24/2009
US8155986	US	Collapsible itineraries	Issued	04/10/2012	10/06/2006	10/07/2005

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US8180752	US	Apparatus and methods for managing a social media universe	Issued	05/15/2012	07/30/2009	07/30/2009
US8504545	US	Apparatus and methods for managing a social media universe	Issued	08/06/2013	04/16/2012	07/30/2009
US8413052	US	Bidder marketplace for applications	Issued	04/02/2013	02/17/2010	02/17/2010
US8620896	US	Reverse matching relationships in networks of existing identifiers	Issued	12/31/2013	12/06/2007	12/06/2007
I400624	TW	Reverse matching relationships in networks of existing identifiers	Issued	07/01/2013	11/27/2008	11/27/2008
US6128623	US	High performance object cache	Issued	10/03/2000	04/15/1998	04/15/1998
754816	AU	High performance object cache	Issued	03/13/2003	04/15/1999	04/15/1998
69915462.6	DE	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	EP	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	FR	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	GB	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
4489292	JP	High performance object cache	Issued	04/09/2010	04/15/1999	04/15/1998
US6915307	US	High performance object cache	Issued	07/05/2005	05/06/2002	04/15/1998
US6453319	US	Maintaining counters for high performance object cache	Issued	09/17/2002	04/05/2000	04/15/1998
US7451190	US	Associating multiple visibility profiles with a user of a real-time communication system	Issued	11/11/2008	01/09/2004	11/26/2003
US7743099	US	Associating multiple visibility profiles with a user of real-time communication system	Issued	06/22/2010	08/20/2008	11/26/2003
US7865308	US	User-generated activity maps	Issued	01/04/2011	12/28/2007	12/28/2007
US8548797	US	Short text language detection using geographic information	Issued	10/01/2013	10/30/2008	10/30/2008

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US7769745	US	Visualizing location-based datasets using "tag maps"	Issued	08/03/2010	12/15/2006	12/15/2006
US7412534	US	Subscription control panel	Issued	08/12/2008	02/02/2006	09/30/2005
10-1004510	KR	Automatically matching advertisements to media files	Issued	12/21/2010	09/25/2006	09/30/2005
US8108378	US	Podcast search engine	Issued	01/31/2012	02/2/2006	09/30/2005
US8527450	US	Apparatus and methods for analyzing and using short messages from commercial accounts	Issued	09/03/2013	03/24/2011	03/24/2011
US7831474	US	System and method for associating an unvalued search term with a valued search term	Issued	11/09/2010	10/28/2005	10/28/2005
US8037070	US	Background contextual conversational search	Issued	10/11/2011	06/25/2008	06/25/2008
US8635106	US	System for targeting data to users on mobile devices	Issued	01/21/2014	07/11/2007	07/11/2007
97123462	TW	System for targeting data to users on mobile devices	Published	N/A	06/24/2008	07/11/2007
US8484191	US	On-line social search	Issued	07/09/2013	12/16/2010	12/16/2010
2013-0275405	US	On-Line Social Search	Published	N/A	06/06/2013	12/16/2010
US8176509	US	Post processing video to identify interests based on clustered user interactions	Issued	05/08/2012	06/30/2009	06/30/2009
2012-0185889	US	Post processing video to identify interests based on clustered user interactions	Published	07/19/2012	03/28/2012	06/30/2009
US8452855	US	System and method for presentation of media related to a context	Issued	05/28/2013	06/27/2008	06/27/2008
2013-0297652	US	System and method for presentation of media related to a context	Published	N/A	05/24/2013	06/27/2008

## PATENT ASSIGNMENT

This Patent Assignment ("Assignment") is entered into as of June 30, 2014 ("Effective Date") by and between Yahoo! Inc., a Delaware Corporation ("Assignor") having an address at 701 First Avenue, Sunnyvale, CA, 94089, and Google Inc., a Delaware Corporation ("Assignee") having an address at 1600 Amphitheatre Parkway, Mountain View, CA, 94043.

**WHEREAS**, Assignor owns certain patents, patent applications and/or other patent rights, including, without limitation, those listed in Exhibit 1 of this Assignment; and

**WHEREAS**, Assignor desires to assign to Assignee, and Assignee desires to receive, all of Assignor's right, title and interest in and to such patents, patent applications and/or other patent rights.

**NOW, THEREFORE**, pursuant to the Asset Purchase Agreement, and for good and valuable consideration given and received, the receipt and legal sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby:

- (A) irrevocably transfers, conveys and assigns to Assignee:
  - (1) the entire right, title and interest, everywhere in the world to
    - (a) the issued patents and patent applications set forth in Exhibit 1,
    - (b) any patents that may issue on any patent applications set forth in Exhibit 1,
    - (c) any continuations, divisionals, worldwide counterparts, reissues and renewals of any of the foregoing and any other patents or applications that issue from, arise out of, descend from, or claim priority to or have common priority with any of the foregoing, whether directly or indirectly, existing or future, and
    - (d) any results of oppositions, reexaminations, supplemental examinations, and other review procedures with respect to any of the foregoing.(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) any rights to enforce, bring actions and obtain all damages and other remedies for all past, present and future infringement of, the Assigned Patents; and
  - (3) all rights to receive royalties with respect to the Assigned Patents; and
  - (4) any and all other rights and interests arising out of, in connection with or in relation to the Assigned Patents;

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IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

**ASSIGNEE**

**For Google Inc.**

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**ASSIGNOR**

**For Yahoo! Inc.**

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**Notary Seal**

[Signature Page for Patent Assignment]

## EXHIBIT 1 TO PATENT ASSIGNMENT – PATENTS AND PATENT APPLICATIONS

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US5797008	US	Memory storing an integrated index of database records	Issued	08/18/1998	08/09/1996	08/09/1996
US6078923	US	Memory storing an integrated index of database records	Issued	06/20/2000	12/16/1997	08/09/1996
US8667173	US	Performing multicast communication in computer networks by using overlay routing	Issued	03/04/2014	02/04/2013	01/11/1999
2014-0105209	US	Performing multicast communication in computer networks by using overlay routing	Published	N/A	12/25/2013	01/11/1999
US8370522	US	Performing multicast communication in computer networks by using overlay routing	Issued	02/05/2013	04/17/2009	01/11/1999
US7734730	US	Content distribution system for operation over an internetwork including content peering arrangements	Issued	06/08/2010	08/05/2004	09/03/1999
60036021.0	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
60046488.1	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
1250785	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
10185164.0	EP	Content distribution system for operation over an internetwork including content peering arrangements	Pending	N/A	12/19/2000	12/20/1999



Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1250785	GB	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	GB	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
US7133928	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	11/07/2006	06/19/2003	01/11/1999
US7080157	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	07/18/2006	11/18/2002	01/01/1999
US6901445	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/31/2005	07/01/2002	09/03/1999
00961467.8	EP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Pending	N/A	09/01/2000	09/03/1999
3807981	JP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/26/2006	09/01/2000	09/03/1999
10-0524258	KR	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	10/20/2005	09/01/2000	09/03/1999
US6850987	US	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/01/2005	10/05/1999	06/01/1999
60008102.8	DE	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	EP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1183820	FR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	GB	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
4685299	JP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/18/2011	06/01/2000	06/01/1999
10-0699018	KR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	03/16/2007	06/01/2000	06/01/1999
2004-0139150	US	System for Multipoint Infrastructure Transport in a Computer Network	Published	N/A	07/10/2003	06/01/1999
US6826564	US	Scalable and Programmable Query Distribution and Collection in a Network of Queryable Devices	Issued	11/30/2004	07/06/2001	07/10/2000
US6785704	US	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	08/31/2004	07/03/2000	12/20/1999
US6735633	US	System for bandwidth allocation in a computer network	Issued	05/11/2004	08/27/1999	06/01/1999
1183834	DE	System for bandwidth allocation in a computer network	Issued	08/03/2006	06/01/2000	06/01/1999
1183834	EP	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	FR	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	GB	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
4922520	JP	System for bandwidth allocation in a computer network	Issued	02/10/2012	06/01/2000	06/01/1999
10-0699019	KR	System for bandwidth allocation in a computer network	Issued	03/16/2007	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US6611872	US	Performing multicast communication in computer networks by using overlay routing	Issued	08/26/2003	06/01/1999	01/11/1999
US6415323	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	07/02/2002	12/09/1999	09/03/1999
US8214388	US	System and method for adding a storage server in a distributed column chunk data store	Issued	07/03/2012	12/19/2005	12/19/2005
US8200933	US	System and method for adding a storage server in a distributed column chunk data store	Issued	06/12/2012	11/10/2011	12/19/2005
US8060720	US	System and method for removing a storage server in a distributed column chunk data store	Issued	11/15/2011	07/29/2009	12/19/2005
US7921132	US	System for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921131	US	Method using a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921087	US	Method for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7860865	US	System of a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	12/28/2010	12/19/2005	12/19/2005
2011-0016127	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	09/20/2010	12/19/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
2011-0055215	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	11/04/2010	12/19/2005
US7587569	US	System and method for removing a storage server in a distributed column chunk data store	Issued	09/08/2009	12/19/2005	12/19/2005
US7546321	US	System and method for recovery from failure of a storage server in a distributed column chunk data store	Issued	06/09/2009	12/19/2005	12/19/2005
US7464247	US	System and method for updating data in a distributed column chunk data store	Issued	12/09/2008	12/19/2005	12/19/2005
US7457935	US	Method for a distributed column chunk data store	Issued	11/25/2008	09/13/2005	09/13/2005
US7447865	US	System and method for compression in a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US7447839	US	System for a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US8112501	US	Centralized registration for distributed social content services	Issued	02/07/2012	03/30/2007	03/30/2007
2012-0110484	US	Centralized registration for distributed social content services	Published	N/A	01/04/2012	05/31/2006
US8286086	US	On-widget data control	Issued	10/09/2012	05/31/2007	05/31/2006
US7209895	US	Methods for use in providing user ratings according to prior transactions	Issued	04/24/2007	05/19/2004	05/19/2004
US8045695	US	System for determining active co-presence of users during interactions	Issued	10/25/2011	09/29/2008	09/29/2008
US8150967	US	System and method for verified presence tracking	Issued	04/03/2012	03/24/2009	03/24/2009
US8155986	US	Collapsible itineraries	Issued	04/10/2012	10/06/2006	10/07/2005

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US8504545	US	Apparatus and methods for managing a social media universe	Issued	08/06/2013	04/16/2012	07/30/2009
US8413052	US	Bidder marketplace for applications	Issued	04/02/2013	02/17/2010	02/17/2010
US8620896	US	Reverse matching relationships in networks of existing identifiers	Issued	12/31/2013	12/06/2007	12/06/2007
I400624	TW	Reverse matching relationships in networks of existing identifiers	Issued	07/01/2013	11/27/2008	11/27/2008
US6128623	US	High performance object cache	Issued	10/03/2000	04/15/1998	04/15/1998
754816	AU	High performance object cache	Issued	03/13/2003	04/15/1999	04/15/1998
69915462.6	DE	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
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1072004	FR	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	GB	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
4489292	JP	High performance object cache	Issued	04/09/2010	04/15/1999	04/15/1998
US6915307	US	High performance object cache	Issued	07/05/2005	05/06/2002	04/15/1998
US6453319	US	Maintaining counters for high performance object cache	Issued	09/17/2002	04/05/2000	04/15/1998
US7451190	US	Associating multiple visibility profiles with a user of a real-time communication system	Issued	11/11/2008	01/09/2004	11/26/2003
US7743099	US	Associating multiple visibility profiles with a user of real-time communication system	Issued	06/22/2010	08/20/2008	11/26/2003
US7865308	US	User-generated activity maps	Issued	01/04/2011	12/28/2007	12/28/2007
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US8527450	US	Apparatus and methods for analyzing and using short messages from commercial accounts	Issued	09/03/2013	03/24/2011	03/24/2011
US7831474	US	System and method for associating an unvalued search term with a valued search term	Issued	11/09/2010	10/28/2005	10/28/2005
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2012-0185889	US	Post processing video to identify interests based on clustered user interactions	Published	07/19/2012	03/28/2012	06/30/2009
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## PATENT ASSIGNMENT

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**WHEREAS**, Assignor owns certain patents, patent applications and/or other patent rights, including, without limitation, those listed in Exhibit 1 of this Assignment; and

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**NOW, THEREFORE**, pursuant to the Asset Purchase Agreement, and for good and valuable consideration given and received, the receipt and legal sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby:

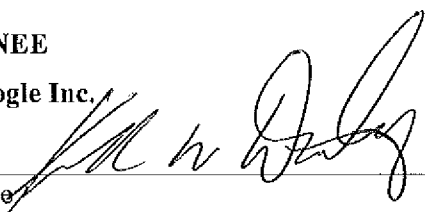
- (A) irrevocably transfers, conveys and assigns to Assignee:
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    - (b) any patents that may issue on any patent applications set forth in Exhibit 1,
    - (c) any continuations, divisionals, worldwide counterparts, reissues and renewals of any of the foregoing and any other patents or applications that issue from, arise out of, descend from, or claim priority to or have common priority with any of the foregoing, whether directly or indirectly, existing or future, and
    - (d) any results of oppositions, reexaminations, supplemental examinations, and other review procedures with respect to any of the foregoing.(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) any rights to enforce, bring actions and obtain all damages and other remedies for all past, present and future infringement of, the Assigned Patents; and
  - (3) all rights to receive royalties with respect to the Assigned Patents; and
  - (4) any and all other rights and interests arising out of, in connection with or in relation to the Assigned Patents;

[The remainder of this page intentionally left blank.]

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

**ASSIGNEE**

For Google Inc.

By:   
Signature

KIRK W. DAILEY  
Name

30 June 2014  
Date

**ASSIGNOR**

For Yahoo! Inc.

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**Notary Seal**

[Signature Page for Patent Assignment]



## EXHIBIT 1 TO PATENT ASSIGNMENT – PATENTS AND PATENT APPLICATIONS

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US5797008	US	Memory storing an integrated index of database records	Issued	08/18/1998	08/09/1996	08/09/1996
US6078923	US	Memory storing an integrated index of database records	Issued	06/20/2000	12/16/1997	08/09/1996
US8667173	US	Performing multicast communication in computer networks by using overlay routing	Issued	03/04/2014	02/04/2013	01/11/1999
2014-0105209	US	Performing multicast communication in computer networks by using overlay routing	Published	N/A	12/25/2013	01/11/1999
US8370522	US	Performing multicast communication in computer networks by using overlay routing	Issued	02/05/2013	04/17/2009	01/11/1999
US7734730	US	Content distribution system for operation over an internetwork including content peering arrangements	Issued	06/08/2010	08/05/2004	09/03/1999
60036021.0	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
60046488.1	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
1250785	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
10185164.0	EP	Content distribution system for operation over an internetwork including content peering arrangements	Pending	N/A	12/19/2000	12/20/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1250785	GB	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	GB	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
US7133928	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	11/07/2006	06/19/2003	01/11/1999
US7080157	US	Performing Multicast Communication in Computer Networks by Using Overlay Routing	Issued	07/18/2006	11/18/2002	01/01/1999
US6901445	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/31/2005	07/01/2002	09/03/1999
00961467.8	EP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Pending	N/A	09/01/2000	09/03/1999
3807981	JP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/26/2006	09/01/2000	09/03/1999
10-0524258	KR	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	10/20/2005	09/01/2000	09/03/1999
US6850987	US	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/01/2005	10/05/1999	06/01/1999
60008102.8	DE	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	EP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1183820	FR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	GB	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
4685299	JP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/18/2011	06/01/2000	06/01/1999
10-0699018	KR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	03/16/2007	06/01/2000	06/01/1999
2004-0139150	US	System for Multipoint Infrastructure Transport in a Computer Network	Published	N/A	07/10/2003	06/01/1999
US6826564	US	Scalable and Programmable Query Distribution and Collection in a Network of Queryable Devices	Issued	11/30/2004	07/06/2001	07/10/2000
US6785704	US	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	08/31/2004	07/03/2000	12/20/1999
US6735633	US	System for bandwidth allocation in a computer network	Issued	05/11/2004	08/27/1999	06/01/1999
1183834	DE	System for bandwidth allocation in a computer network	Issued	08/03/2006	06/01/2000	06/01/1999
1183834	EP	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	FR	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	GB	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
4922520	JP	System for bandwidth allocation in a computer network	Issued	02/10/2012	06/01/2000	06/01/1999
10-0699019	KR	System for bandwidth allocation in a computer network	Issued	03/16/2007	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US6611872	US	Performing multicast communication in computer networks by using overlay routing	Issued	08/26/2003	06/01/1999	01/11/1999
US6415323	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	07/02/2002	12/09/1999	09/03/1999
US8214388	US	System and method for adding a storage server in a distributed column chunk data store	Issued	07/03/2012	12/19/2005	12/19/2005
US8200933	US	System and method for adding a storage server in a distributed column chunk data store	Issued	06/12/2012	11/10/2011	12/19/2005
US8060720	US	System and method for removing a storage server in a distributed column chunk data store	Issued	11/15/2011	07/29/2009	12/19/2005
US7921132	US	System for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921131	US	Method using a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921087	US	Method for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7860865	US	System of a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	12/28/2010	12/19/2005	12/19/2005
2011-0016127	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	09/20/2010	12/19/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
2011-0055215	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	11/04/2010	12/19/2005
US7587569	US	System and method for removing a storage server in a distributed column chunk data store	Issued	09/08/2009	12/19/2005	12/19/2005
US7546321	US	System and method for recovery from failure of a storage server in a distributed column chunk data store	Issued	06/09/2009	12/19/2005	12/19/2005
US7464247	US	System and method for updating data in a distributed column chunk data store	Issued	12/09/2008	12/19/2005	12/19/2005
US7457935	US	Method for a distributed column chunk data store	Issued	11/25/2008	09/13/2005	09/13/2005
US7447865	US	System and method for compression in a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US7447839	US	System for a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US8112501	US	Centralized registration for distributed social content services	Issued	02/07/2012	03/30/2007	03/30/2007
2012-0110484	US	Centralized registration for distributed social content services	Published	N/A	01/04/2012	05/31/2006
US8286086	US	On-widget data control	Issued	10/09/2012	05/31/2007	05/31/2006
US7209895	US	Methods for use in providing user ratings according to prior transactions	Issued	04/24/2007	05/19/2004	05/19/2004
US8045695	US	System for determining active co-presence of users during interactions	Issued	10/25/2011	09/29/2008	09/29/2008
US8150967	US	System and method for verified presence tracking	Issued	04/03/2012	03/24/2009	03/24/2009
US8155986	US	Collapsible itineraries	Issued	04/10/2012	10/06/2006	10/07/2005

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US8180752	US	Apparatus and methods for managing a social media universe	Issued	05/15/2012	07/30/2009	07/30/2009
US8504545	US	Apparatus and methods for managing a social media universe	Issued	08/06/2013	04/16/2012	07/30/2009
US8413052	US	Bidder marketplace for applications	Issued	04/02/2013	02/17/2010	02/17/2010
US8620896	US	Reverse matching relationships in networks of existing identifiers	Issued	12/31/2013	12/06/2007	12/06/2007
I400624	TW	Reverse matching relationships in networks of existing identifiers	Issued	07/01/2013	11/27/2008	11/27/2008
US6128623	US	High performance object cache	Issued	10/03/2000	04/15/1998	04/15/1998
754816	AU	High performance object cache	Issued	03/13/2003	04/15/1999	04/15/1998
69915462.6	DE	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	EP	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	FR	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	GB	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
4489292	JP	High performance object cache	Issued	04/09/2010	04/15/1999	04/15/1998
US6915307	US	High performance object cache	Issued	07/05/2005	05/06/2002	04/15/1998
US6453319	US	Maintaining counters for high performance object cache	Issued	09/17/2002	04/05/2000	04/15/1998
US7451190	US	Associating multiple visibility profiles with a user of a real-time communication system	Issued	11/11/2008	01/09/2004	11/26/2003
US7743099	US	Associating multiple visibility profiles with a user of real-time communication system	Issued	06/22/2010	08/20/2008	11/26/2003
US7865308	US	User-generated activity maps	Issued	01/04/2011	12/28/2007	12/28/2007
US8548797	US	Short text language detection using geographic information	Issued	10/01/2013	10/30/2008	10/30/2008

Execution Version

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US7769745	US	Visualizing location-based datasets using "tag maps"	Issued	08/03/2010	12/15/2006	12/15/2006
US7412534	US	Subscription control panel	Issued	08/12/2008	02/02/2006	09/30/2005
10-1004510	KR	Automatically matching advertisements to media files	Issued	12/21/2010	09/25/2006	09/30/2005
US8108378	US	Podcast search engine	Issued	01/31/2012	02/2/2006	09/30/2005
US8527450	US	Apparatus and methods for analyzing and using short messages from commercial accounts	Issued	09/03/2013	03/24/2011	03/24/2011
US7831474	US	System and method for associating an unvalued search term with a valued search term	Issued	11/09/2010	10/28/2005	10/28/2005
US8037070	US	Background contextual conversational search	Issued	10/11/2011	06/25/2008	06/25/2008
US8635106	US	System for targeting data to users on mobile devices	Issued	01/21/2014	07/11/2007	07/11/2007
97123462	TW	System for targeting data to users on mobile devices	Published	N/A	06/24/2008	07/11/2007
US8484191	US	On-line social search	Issued	07/09/2013	12/16/2010	12/16/2010
2013-0275405	US	On-Line Social Search	Published	N/A	06/06/2013	12/16/2010
US8176509	US	Post processing video to identify interests based on clustered user interactions	Issued	05/08/2012	06/30/2009	06/30/2009
2012-0185889	US	Post processing video to identify interests based on clustered user interactions	Published	07/19/2012	03/28/2012	06/30/2009
US8452855	US	System and method for presentation of media related to a context	Issued	05/28/2013	06/27/2008	06/27/2008
2013-0297652	US	System and method for presentation of media related to a context	Published	N/A	05/24/2013	06/27/2008

## PATENT ASSIGNMENT

This Patent Assignment ("Assignment") is entered into as of June 30, 2014 ("Effective Date") by and between Yahoo! Inc., a Delaware Corporation ("Assignor") having an address at 701 First Avenue, Sunnyvale, CA, 94089, and Google Inc., a Delaware Corporation ("Assignee") having an address at 1600 Amphitheatre Parkway, Mountain View, CA, 94043.

**WHEREAS**, Assignor owns certain patents, patent applications and/or other patent rights, including, without limitation, those listed in Exhibit 1 of this Assignment; and

**WHEREAS**, Assignor desires to assign to Assignee, and Assignee desires to receive, all of Assignor's right, title and interest in and to such patents, patent applications and/or other patent rights.

**NOW, THEREFORE**, pursuant to the Asset Purchase Agreement, and for good and valuable consideration given and received, the receipt and legal sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby:

- (A) irrevocably transfers, conveys and assigns to Assignee:
  - (1) the entire right, title and interest, everywhere in the world to
    - (a) the issued patents and patent applications set forth in Exhibit 1,
    - (b) any patents that may issue on any patent applications set forth in Exhibit 1,
    - (c) any continuations, divisionals, worldwide counterparts, reissues and renewals of any of the foregoing and any other patents or applications that issue from, arise out of, descend from, or claim priority to or have common priority with any of the foregoing, whether directly or indirectly, existing or future, and
    - (d) any results of oppositions, reexaminations, supplemental examinations, and other review procedures with respect to any of the foregoing.(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) any rights to enforce, bring actions and obtain all damages and other remedies for all past, present and future infringement of, the Assigned Patents; and
  - (3) all rights to receive royalties with respect to the Assigned Patents; and
  - (4) any and all other rights and interests arising out of, in connection with or in relation to the Assigned Patents;

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IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

**ASSIGNEE**

For Google Inc.

By: 

Signature

KIRK W DAILEY  
Name

30 June 2011  
Date

**ASSIGNOR**

For Yahoo! Inc.

By: \_\_\_\_\_

Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

Notary Seal

[Signature Page for Patent Assignment]

## EXHIBIT 1 TO PATENT ASSIGNMENT – PATENTS AND PATENT APPLICATIONS

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US5797008	US	Memory storing an integrated index of database records	Issued	08/18/1998	08/09/1996	08/09/1996
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US8667173	US	Performing multicast communication in computer networks by using overlay routing	Issued	03/04/2014	02/04/2013	01/11/1999
2014-0105209	US	Performing multicast communication in computer networks by using overlay routing	Published	N/A	12/25/2013	01/11/1999
US8370522	US	Performing multicast communication in computer networks by using overlay routing	Issued	02/05/2013	04/17/2009	01/11/1999
US7734730	US	Content distribution system for operation over an internetwork including content peering arrangements	Issued	06/08/2010	08/05/2004	09/03/1999
60036021.0	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
60046488.1	DE	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
1250785	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	EP	Content distribution system for operation over an internetwork including content peering arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
10185164.0	EP	Content distribution system for operation over an internetwork including content peering arrangements	Pending	N/A	12/19/2000	12/20/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1250785	GB	Content distribution system for operation over an internetwork including content peering arrangements	Issued	08/15/2007	12/19/2000	12/20/1999
1865684	GB	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	09/28/2011	12/19/2000	12/20/1999
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US6901445	US	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/31/2005	07/01/2002	09/03/1999
00961467.8	EP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Pending	N/A	09/01/2000	09/03/1999
3807981	JP	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	05/26/2006	09/01/2000	09/03/1999
10-0524258	KR	Proximity-based redirection system for robust and scalable service-node location in an internetwork	Issued	10/20/2005	09/01/2000	09/03/1999
US6850987	US	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/01/2005	10/05/1999	06/01/1999
60008102.8	DE	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	EP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
1183820	FR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
1183820	GB	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/04/2004	06/01/2000	06/01/1999
4685299	JP	System for Multipoint Infrastructure Transport in a Computer Network	Issued	02/18/2011	06/01/2000	06/01/1999
10-0699018	KR	System for Multipoint Infrastructure Transport in a Computer Network	Issued	03/16/2007	06/01/2000	06/01/1999
2004-0139150	US	System for Multipoint Infrastructure Transport in a Computer Network	Published	N/A	07/10/2003	06/01/1999
US6826564	US	Scalable and Programmable Query Distribution and Collection in a Network of Queryable Devices	Issued	11/30/2004	07/06/2001	07/10/2000
US6785704	US	A Content Distribution System for Operation Over an Internetwork Including Content Peering Arrangements	Issued	08/31/2004	07/03/2000	12/20/1999
US6735633	US	System for bandwidth allocation in a computer network	Issued	05/11/2004	08/27/1999	06/01/1999
1183834	DE	System for bandwidth allocation in a computer network	Issued	08/03/2006	06/01/2000	06/01/1999
1183834	EP	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	FR	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
1183834	GB	System for bandwidth allocation in a computer network	Issued	06/21/2006	06/01/2000	06/01/1999
4922520	JP	System for bandwidth allocation in a computer network	Issued	02/10/2012	06/01/2000	06/01/1999
10-0699019	KR	System for bandwidth allocation in a computer network	Issued	03/16/2007	06/01/2000	06/01/1999

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US8214388	US	System and method for adding a storage server in a distributed column chunk data store	Issued	07/03/2012	12/19/2005	12/19/2005
US8200933	US	System and method for adding a storage server in a distributed column chunk data store	Issued	06/12/2012	11/10/2011	12/19/2005
US8060720	US	System and method for removing a storage server in a distributed column chunk data store	Issued	11/15/2011	07/29/2009	12/19/2005
US7921132	US	System for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921131	US	Method using a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7921087	US	Method for query processing of column chunks in a distributed column chunk data store	Issued	04/05/2011	12/19/2005	12/19/2005
US7860865	US	System of a hierarchy of servers for query processing of column chunks in a distributed column chunk data store	Issued	12/28/2010	12/19/2005	12/19/2005
2011-0016127	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	09/20/2010	12/19/2005

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
2011-0055215	US	Hierarchy of Servers for Query Processing of Column Chunks in a Distributed Column Chunk Data Store	Published	N/A	11/04/2010	12/19/2005
US7587569	US	System and method for removing a storage server in a distributed column chunk data store	Issued	09/08/2009	12/19/2005	12/19/2005
US7546321	US	System and method for recovery from failure of a storage server in a distributed column chunk data store	Issued	06/09/2009	12/19/2005	12/19/2005
US7464247	US	System and method for updating data in a distributed column chunk data store	Issued	12/09/2008	12/19/2005	12/19/2005
US7457935	US	Method for a distributed column chunk data store	Issued	11/25/2008	09/13/2005	09/13/2005
US7447865	US	System and method for compression in a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US7447839	US	System for a distributed column chunk data store	Issued	11/04/2008	09/13/2005	09/13/2005
US8112501	US	Centralized registration for distributed social content services	Issued	02/07/2012	03/30/2007	03/30/2007
2012-0110484	US	Centralized registration for distributed social content services	Published	N/A	01/04/2012	05/31/2006
US8286086	US	On-widget data control	Issued	10/09/2012	05/31/2007	05/31/2006
US7209895	US	Methods for use in providing user ratings according to prior transactions	Issued	04/24/2007	05/19/2004	05/19/2004
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US8150967	US	System and method for verified presence tracking	Issued	04/03/2012	03/24/2009	03/24/2009
US8155986	US	Collapsible itineraries	Issued	04/10/2012	10/06/2006	10/07/2005

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US8504545	US	Apparatus and methods for managing a social media universe	Issued	08/06/2013	04/16/2012	07/30/2009
US8413052	US	Bidded marketplace for applications	Issued	04/02/2013	02/17/2010	02/17/2010
US8620896	US	Reverse matching relationships in networks of existing identifiers	Issued	12/31/2013	12/06/2007	12/06/2007
I400624	TW	Reverse matching relationships in networks of existing identifiers	Issued	07/01/2013	11/27/2008	11/27/2008
US6128623	US	High performance object cache	Issued	10/03/2000	04/15/1998	04/15/1998
754816	AU	High performance object cache	Issued	03/13/2003	04/15/1999	04/15/1998
69915462.6	DE	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	EP	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	FR	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
1072004	GB	High performance object cache	Issued	03/10/2004	04/15/1999	04/15/1998
4489292	JP	High performance object cache	Issued	04/09/2010	04/15/1999	04/15/1998
US6915307	US	High performance object cache	Issued	07/05/2005	05/06/2002	04/15/1998
US6453319	US	Maintaining counters for high performance object cache	Issued	09/17/2002	04/05/2000	04/15/1998
US7451190	US	Associating multiple visibility profiles with a user of a real-time communication system	Issued	11/11/2008	01/09/2004	11/26/2003
US7743099	US	Associating multiple visibility profiles with a user of real-time communication system	Issued	06/22/2010	08/20/2008	11/26/2003
US7865308	US	User-generated activity maps	Issued	01/04/2011	12/28/2007	12/28/2007
US8548797	US	Short text language detection using geographic information	Issued	10/01/2013	10/30/2008	10/30/2008

Patent No. (App or Pub No.)	Country	Title	Status	Issue Date	File Date	Priority Date
US7769745	US	Visualizing location-based datasets using "tag maps"	Issued	08/03/2010	12/15/2006	12/15/2006
US7412534	US	Subscription control panel	Issued	08/12/2008	02/02/2006	09/30/2005
10-1004510	KR	Automatically matching advertisements to media files	Issued	12/21/2010	09/25/2006	09/30/2005
US8108378	US	Podcast search engine	Issued	01/31/2012	02/2/2006	09/30/2005
US8527450	US	Apparatus and methods for analyzing and using short messages from commercial accounts	Issued	09/03/2013	03/24/2011	03/24/2011
US7831474	US	System and method for associating an unvalued search term with a valued search term	Issued	11/09/2010	10/28/2005	10/28/2005
US8037070	US	Background contextual conversational search	Issued	10/11/2011	06/25/2008	06/25/2008
US8635106	US	System for targeting data to users on mobile devices	Issued	01/21/2014	07/11/2007	07/11/2007
97123462	TW	System for targeting data to users on mobile devices	Published	N/A	06/24/2008	07/11/2007
US8484191	US	On-line social search	Issued	07/09/2013	12/16/2010	12/16/2010
2013-0275405	US	On-Line Social Search	Published	N/A	06/06/2013	12/16/2010
US8176509	US	Post processing video to identify interests based on clustered user interactions	Issued	05/08/2012	06/30/2009	06/30/2009
2012-0185889	US	Post processing video to identify interests based on clustered user interactions	Published	07/19/2012	03/28/2012	06/30/2009
US8452855	US	System and method for presentation of media related to a context	Issued	05/28/2013	06/27/2008	06/27/2008
2013-0297652	US	System and method for presentation of media related to a context	Published	N/A	05/24/2013	06/27/2008