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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6442349

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| <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.  | 04/18/2016                               |
| <b>RECEIVING PARTY DATA</b>  |  |
| <b>Name:</b>   | EXCALIBUR IP, LLC                        |
| <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>   | 17117351                                 |
| <b>CORRESPONDENCE DATA</b>   |  |
| <b>Fax Number:</b>   | (480)994-9025                            |
| <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>  | 4809949888                               |
| <b>Email:</b>  | docketing@ngtechlaw.com                  |
| <b>Correspondent Name:</b>   | THE NOBLITT GROUP PLLC                   |
| <b>Address Line 1:</b>   | 8777 NORTH GAINEY CENTER DRIVE, STE. 175 |
| <b>Address Line 4:</b>   | SCOTTSDALE, ARIZONA 85258                |
| <b>ATTORNEY DOCKET NUMBER:</b>   | 10779.5517                               |
| <b>NAME OF SUBMITTER:</b>  | DAVID WADE SCHNELL                       |
| <b>SIGNATURE:</b>  | /david wade schnell/                     |
| <b>DATE SIGNED:</b>  | 12/10/2020                               |
| <b>Total Attachments: 174</b>  |  |
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# PATENT ASSIGNMENT

This patent assignment agreement ("Agreement") is entered into by and between Yahoo! Inc., a Delaware Corporation having an address at 701 First Avenue, Sunnyvale, CA, 94089 ("Assignor") and Excalibur IP, LLC ("Excalibur"), a Delaware Limited Liability Corporation having an address at 701 First Avenue, Sunnyvale, CA, 94089.

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

- (A) irrevocably assigns to Excalibur:
- (1) the entire right, title and interest, everywhere in the world to
    - (a) the issued patents and/or patent applications set forth on the Schedule of Assets,
    - (b) any patent applications and/or patents which may claim priority of the items in (a) (including but not limited to continuations, divisions, continuations-in-part, substitutes, reissues, reexaminations or extensions thereof, together with all priority rights and counterpart applications and the full right to claim for any such applications all benefits and priority rights under any existing or future international patent conventions, agreements, legislation or treaties),
    - (c) any patent that may be granted on any patent application in (a) or (b), and
    - (d) any other rights in the inventions described in any of (a), (b) or (c);(all of the foregoing in (1), collectively, the "Assigned Patents");
  - (2) the right to sue third parties for infringement (including but not limited to damages and injunctive relief) of any of the Assigned Patents accruing based on activities occurring prior to the execution date hereof; and
  - (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2); (all of the foregoing in (A), collectively, the "Assigned Rights");
- (B) agrees upon request (and at the expense) of Excalibur (or its successors, assigns or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes Excalibur to act in Assignor's name to:
- (1) execute all oaths, assignments, powers and any other papers;
  - (2) testify in any proceeding; and
  - (3) otherwise take any action, and fully cooperate with Excalibur in each case, related to securing and enforcing Excalibur rights related to this Agreement;
- (C) agrees to deliver to Excalibur accurate copies of all material correspondence with counsel, in Assignor's or its counsel's possession, relating to ownership, filing, prosecution, infringement, validity, or enforceability of, the Assigned Patents, to the extent such has not already been delivered; and
- (D) agrees to do all lawful acts necessary to be done to reasonably assist Excalibur (or its successors, assigns or legal representatives in any interference, litigation, or other proceeding in any country concerning or in connection with the Assigned Rights.

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be duly signed on its behalf.

Yahoo! Inc.

Ronald S. Bell  
Signature

Ronald S. Bell  
Name

General Counsel & Secretary  
Title

4/18/16  
Date

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

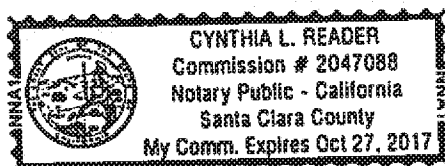
State of California

County of Santa Clara  
Subscribed and sworn to (or affirmed) before me this 18th day

of April, 2016, by Ronald S.

Bell, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature [Signature] (Seal)



SCHEDULE OF ASSETS

| Patent       | Publication        | Application       | City | Kind | Title   | Filed      | Issued    |
|--------------|--------------------|-------------------|------|------|---|------------|-----------|
| -            | -                  | 60/411,567        | US   | PRV  | Region ID and Application of Region ID              | 9/17/2002  | -         |
| 7028027      | -                  | 10/262,519        | US   | UTL  | Ranking Documents Based On Classification           | 9/30/2002  | 4/11/2006 |
| 7533119      | US-2006-0129550-A1 | 11/335,076        | US   | UTL  | Ranking Documents Based on Classification           | 1/18/2006  | 5/12/2009 |
| 9047370      | 2009-0187566 A1    | 12/416,896        | US   | UTL  | Ranking Documents Based On Classification           | 4/1/2009   | 6/2/2015  |
| 602005042559 | 1714431            | 5713466           | DE   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | 1/22/2014 |
| 1714431      | 1714431            | 5713466           | EP   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | 1/22/2014 |
| 1714431      | -                  | 5713466           | FR   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | 1/22/2014 |
| 1714431      | -                  | 5713466           | GB   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | 1/22/2014 |
| 10-0828831   | -                  | 10-2006-7015967   | KR   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | 5/2/2008  |
| -            | -                  | 60/544,912        | US   | PRV  | Internet Telephony Across Wireless Networks         | 2/13/2004  | -         |
| 7260082      | 2005-0259612       | 11/056,213        | US   | UTL  | Internet Telephony Across Wireless Networks         | 2/10/2005  | 8/21/2007 |
| -            | WO 2005/079346     | PCT/US2005/004554 | WO   | UTL  | Internet Telephony Across Wireless Networks         | 2/11/2005  | -         |
| 7539699      | -                  | 60/456,616        | US   | PRV  | Address Book Builder                                | 3/21/2003  | -         |
| -            | 2004-0186848 A1    | 10/624,733        | US   | UTL  | Generating and Maintaining and Electronic           | 7/21/2003  | 5/26/2009 |
| -            | -                  | 60/548,346        | US   | PRV  | Automatic Product Categorizer                       | 2/27/2004  | -         |
| 7870039      | -                  | 10/920,588        | US   | UTL  | Automatic Product Categorization                    | 8/17/2004  | 1/11/2011 |
| 7885859      | 2007-0214140 A1    | 11/373,726        | US   | UTL  | that has been assigned to other sets of categories  | 3/10/2006  | 2/8/2011  |
| -            | -                  | 60/518,857        | US   | PRV  | Backup and Restore in Mobile Applications           | 11/10/2003 | -         |
| 7584225      | 2005-0102329 A1    | 10/933,829        | US   | UTL  | in the historical record backup associated with the | 9/2/2004   | 9/1/2009  |
| -            | 1784747            | 5730930           | EP   | UTL  | User Annotations from a Trust Network               | 3/15/2005  | -         |
| -            | -                  | 15166498          | EP   | UTL  | User Judgments Including Trust Networks             | 10/28/2005 | -         |
| 10-0824091   | -                  | 10-2006-7019075   | KR   | UTL  | User Annotations from a Trust Network               | 3/15/2005  | 4/15/2008 |
| 10-0966405   | -                  | 10-2007-7011915   | KR   | UTL  | User Judgments Including Trust Networks             | 10/28/2005 | 6/18/2010 |
| -            | -                  | 60/533,577        | US   | PRV  | Network Determinants                                | 3/15/2004  | -         |
| -            | -                  | 60/623,282        | US   | PRV  | User Judgments Including Trust Networks             | 10/28/2004 | -         |
| 8788492      | 2005-0256866 A1    | 11/082,202        | US   | UTL  | user annotations from a trust network               | 3/15/2005  | 7/22/2014 |
| -            | 2014-0289232 A1    | 14/292,028        | US   | UTL  | user annotations from a trust network               | 5/30/2014  | -         |
| -            | -                  | PCT/US2005/039297 | WO   | UTL  | User Judgments Including Trust Networks             | 10/28/2005 | -         |
| -            | 2005/089291        | PCT/US2005/008487 | WO   | UTL  | Search System and Methods with Integration of       | 3/15/2005  | -         |
| -            | -                  | 60/460,657        | US   | PRV  | User Annotations from a Trust Network               | 4/4/2003   | -         |
| 7007014      | 2004-0199496 A1    | 10/703,888        | US   | UTL  | Canonicalization of Terms in a Keyword-Based        | 11/7/2003  | 2/28/2006 |
| 7401074      | 2006-0074853 A1    | 11/282,435        | US   | UTL  | Canonicalization of Terms in a Keyword-Based        | 11/17/2005 | 7/15/2008 |
| -            | -                  | 60/421,524        | US   | PRV  | Presentation System                                 | 10/25/2002 | -         |
| 7240214      | 2004-0083297-A1    | 10/637,384        | US   | UTL  | KEYWORD-BASED PRESENTATION SYSTEM                   | 8/8/2003   | 7/3/2007  |

SCHEDULE OF ASSETS

|            |                    |                   |            |    |     |   |                       |
|------------|--------------------|-------------------|------------|----|-----|---|-----------------------|
| -          | -                  | -                 | 60/483,191 | US | PRV | Common Value System for Dynamic Composition of Pages  | 6/27/2003 -           |
| 7574651    | 2006-0161843 A1    | 10/758,969        | 60/528,609 | US | UTL | Common Value System for Dynamic Composition of Pages  | 1/15/2004 8/11/2009   |
| 8528003    | 2005-0108033       | 10/753,106        |            | US | PRV | Communication Among Browser Windows   | 12/10/2003 -          |
| -          | -                  | 60/460,653        |            | US | UTL | Communication Among Browser Windows   | 1/6/2004 9/3/2013     |
| -          | -                  |                   |            | US | PRV | Content Bridge for Associating Host Content Guest Content Wherein Guest Content is Determined by Search     | 4/4/2003 -            |
| 7107264    | 2004-0249800 A1    | 10/816,456        |            | US | PRV | Content Bridge for Associating Host Content and Guest Content Wherein Guest Content is Determined by Search | 3/31/2004 9/12/2006   |
| -          | -                  | 60/176,666        |            | US | UTL | Content Exchange (Provisional)  | 1/18/2000 -           |
| 7243136    | 2002-0007402       | 09/764,493        |            | US | PRV | Approach for Managing and Providing Content to Users  | 1/17/2001 7/10/2007   |
| -          | -                  | 60/535,265        |            | US | UTL | Content Management System   | 1/9/2004 -            |
| 7483891    | 2005-0154746 A1    | 10/829,814        |            | US | PRV | Content presentation and management system associating base content and relevant additional content         | 4/21/2004 1/27/2009   |
| -          | -                  | 60/269,699        |            | US | UTL | Content-Based Billing And Header-Based Network API  | 2/17/2001 -           |
| 7870293    | 2002-0124112 A1    | 10/077,834        |            | US | PRV | Header-Based Network API  | 2/15/2002 1/11/2011   |
| -          | 2002-0129088 A1    | 10/078,051        |            | US | UTL | Content-Based Billing   | 2/15/2002 -           |
| 8296462    | 2011-0093618       | 12/980,210        |            | US | UTL | Header-Based Network API  | 12/28/2010 10/23/2012 |
| -          | -                  | 60/576,735        |            | US | UTL | Content Management System for User Behavior Targeting   | 6/2/2004 -            |
| 8180769    | 2006-0020596 A1    | 11/144,234        |            | US | PRV | Content-Management System for User Behavior Targeting   | 6/2/2005 5/15/2012    |
| -          | 2005/119521        | PCT/US2005/019356 |            | WO | UTL | Content-Management System for User Behavior Targeting   | 6/2/2005 -            |
| -          | -                  | 60/219,036        |            | US | PRV | Demographic Server Prediction Engine  | 7/18/2000 -           |
| 8060416    | 2004-0138956A1     | 09/850,949        |            | US | UTL | Method and System for Providing Advertising Inventory Information in Response to Demographic Inquiries      | 5/7/2001 11/15/2011   |
| -          | -                  | 60/214,662        |            | US | PRV | Financial Information Portal  | 6/28/2000 -           |
| 7370011    | US-2002-0049655-A1 | 09/896,438        |            | US | UTL | Financial Information Portal  | 6/28/2001 5/6/2008    |
| 7640210    | 2008-0133413 A1    | 12/030,127        |            | US | UTL | Financial Information Portal  | 2/12/2008 12/29/2009  |
| -          | -                  | 60/457,479        |            | US | PRV | Instant Messaging Using an E-Mail Protocol  | 3/24/2003 -           |
| 7406501    | US 2004-0215721 A1 | 10/610,902        |            | US | UTL | SYSTEM AND METHOD FOR INSTANT MESSAGING USING AN EMAIL PROTOCOL   | 6/30/2003 7/29/2008   |
| -          | 1792259            | 5727320           |            | EP | UTL | Integration of Personalized Portals with Web Content Syndication  | 3/15/2005 -           |
| 10-0854561 | -                  | 10-2006-7019079   |            | KR | UTL | Integration of Personalized Portals with Web Content Syndication  | 3/15/2005 8/20/2008   |
| -          | -                  | 60/533,644        |            | US | PRV | Integration of Personalized Portals with Web Content Syndication  | 3/15/2004 -           |

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|---------|--------------------|-------------------|----|-----|---|-------------|------------|
| 8020106 | 2006-0230021 A1    | 11/082,128        | US | UTL | Integration of Personalized Portals with Web Content Syndication                            | 3/15/2005   | 9/13/2011  |
| -       | -                  | PCT/US2005/008644 | WO | UTL | Integration of Personalized Portals with Web Content Syndication                            | 3/15/2005 - |            |
| -       | -                  | 60/553,645        | US | PRV | Inverse Search Systems and Methods  | 3/15/2004 - |            |
| 8150825 | US 2005-0216454 A1 | 11/081,822        | US | UTL | Inverse Search Systems and Methods  | 3/15/2005   | 4/3/2012   |
| 8396853 | 2012-0173505       | 13/419,867        | US | UTL | Inverse Search Systems and Methods  | 3/14/2012   | 3/12/2013  |
| 8612417 | 2013-0179465A1     | 13/783,582        | US | UTL | Inverse Search Systems and Methods  | 3/4/2013    | 12/17/2013 |
| 8886627 | 2014-0108387 A1    | 14/103,750        | US | UTL | Inverse Search Systems and Methods  | 12/11/2013  | 11/11/2014 |
| -       | -                  | 60/492,018        | US | PRV | Listings Optimization Using a Plurality of Data Sources                                     | 8/1/2003 -  |            |
| 7617203 | 2005-0027699-a1    | 10/752,742        | US | UTL | Listings Optimization Using a Plurality of Data Sources                                     | 1/6/2004    | 11/10/2009 |
| -       | -                  | 60/559,515        | US | PRV | Method and Apparatus for Providing a Flash-Based Avatar Display                             | 4/5/2004 -  |            |
| 7707520 | US 2005-0248574 A1 | 11/047,182        | US | UTL | Method and Apparatus for Providing Flash-Based Avatars                                      | 1/31/2005   | 4/27/2010  |
| -       | -                  | 60/486,698        | US | PRV | Method and System for Maintaining Font Sizes On Different Platforms                         | 7/11/2003 - |            |
| 7640498 | US-2005-0086599-A1 | 10/888,345        | US | UTL | Method and System for Maintaining Font Sizes On Different Platforms                         | 7/9/2004    | 12/29/2009 |
| -       | 2005-008436-A2     | PCT/US04/22625    | WO | UTL | Method and System for Maintaining Font Sizes On Different Platforms                         | 7/12/2004 - |            |
| -       | -                  | 60/387,164        | US | PRV | Method and system for controlling and monitoring a web-cast                                 | 6/7/2002 -  |            |
| 7849152 | 2004/0055016A1     | 10/458,569        | US | UTL | Method and system for controlling and monitoring a web-cast                                 | 6/9/2003    | 12/7/2010  |
| 7412655 | -                  | 10/979,587        | US | UTL | Method and System of Providing Dynamic Dialogs Method, Apparatus, and System for Providing  | 11/2/2004   | 8/12/2008  |
| -       | -                  | 60/540,690        | US | PRV | Online Identities   | 1/30/2004 - |            |
| 7865566 | US2005-0216529-A1  | 11/047,140        | US | UTL | Method and Apparatus for Providing Real-Time Notification Mechanism for Avatars             | 1/31/2005   | 1/4/2011   |
| -       | -                  | 60/559,480        | US | PRV | Method and Apparatus for providing Persistent and Dynamic Moods in Avatars                  | 4/5/2004 -  |            |
| -       | -                  | 60/559,516        | US | PRV | Method and apparatus for providing a real-time notification mechanism for Avatars/messenger | 4/5/2004 -  |            |
| -       | -                  | 60/483,800        | US | PRV | Methods To Attribute Conversions For Online Advertisement Campaigns                         | 6/30/2003 - |            |
| 8108254 | US-2005-0071218-A1 | 10/879,457        | US | UTL | Methods To Attribute Conversions For Online Advertisement Campaigns                         | 6/29/2004   | 1/31/2012  |
| 147604  | -                  | 88101668          | TW | UTL | Navigating Network Resources Based on Metadata  | 2/21/999    | 4/22/2002  |
| -       | -                  | 60/212,060        | US | PRV | Mobile Software Morphing Agent  | 6/16/2000 - |            |

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|            |                 |                   |    |     |  |              |           |
|------------|-----------------|-------------------|----|-----|--|--------------|-----------|
| 7058699    | -               | 09/650,273        | US | UTL | Systems and Methods for Implementing Code Translations That Enable Persistent Client-Server Communications Via a Proxy     | 8/29/2000    | 6/6/2006  |
| -          | -               | 60/518,858        | US | PRV | Navigation Pattern on a Directory Tree   | 11/10/2003 - |           |
| 7343568    | 2005-0102635 A1 | 10/959,917        | US | UTL | Navigation Pattern on a Directory Tree   | 10/5/2004    | 3/11/2008 |
| -          | -               | 5821001           | EP | UTL | Link-Based Spam Detection  | 10/26/2005 - |           |
| 10-1230687 | -               | 10-2007-7011999   | KR | UTL | Link-Based Spam Detection  | 10/26/2005   | 1/31/2013 |
| -          | -               | 60/623,295        | US | PRV | Novel Method for Link-Based Spam Detection   | 10/28/2004 - |           |
| 7533092    | 2006-0095416 A1 | 11/198,471        | US | UTL | Link-Based Spam Detection  | 8/4/2005     | 5/12/2009 |
| -          | WO 2006/049996  | PCT/US2005/038619 | WO | UTL | Link-Based Spam Detection  | 10/26/2005 - |           |
| -          | -               | 60/605,927        | US | PRV | Optimal Storage and Retrieval of XML Data  | 8/31/2004 -  |           |
| 7403940    | -               | 10/990,426        | US | UTL | Optimal Storage and Retrieval of XML Data  | 11/16/2004   | 7/22/2008 |
| -          | -               | 13156575          | EP | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005 -  |           |
| 10-0905865 | -               | 10-2008-7010434   | KR | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 6/25/2009 |
| 10-1222294 | -               | 10-2008-7010436   | KR | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 1/8/2013  |
| 10-0905866 | -               | 10-2008-7010435   | KR | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 6/25/2009 |
| 10-1236619 | -               | 10-2010-7012470   | KR | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 2/18/2013 |
| 10-1312190 | -               | 10-2011-7031294   | KR | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 9/17/2013 |
| -          | -               | 60/553,607        | US | PRV | Search System and Methods with Integration of User Judgements  | 3/15/2004 -  |           |
| -          | -               | 60/614,232        | US | PRV | Search System and Methods with Integration of User Judgements  | 9/28/2004 -  |           |
| 8005850    | 2005-0234891 A1 | 11/081,860        | US | UTL | Search System and Methods with Integration of User Annotations   | 3/15/2005    | 8/23/2011 |
| 8005835    | 2005-0256867 A1 | 11/082,212        | US | UTL | Search Systems and Methods with Integration of Aggregate User Annotations  | 3/15/2005    | 8/23/2011 |
| 7599950    | 2005-0216457 A1 | 11/081,871        | US | UTL | Systems and Methods for Collecting User Annotations  | 3/15/2005    | 10/6/2009 |
| 7761436    | 2007-0156636 A1 | 11/325,254        | US | UTL | APPARATUS AND METHOD FOR CONTROLLING CONTENT ACCESS BASED ON SHARED ANNOTATIONS FOR ANNOTATED USERS IN A FOLKSONOMY SCHEME | 1/3/2006     | 7/20/2010 |
| 7685209    | -               | 11/149,323        | US | UTL | Apparatus and method for normalizing user selected keywords in a folksonomy  | 6/8/2005     | 3/23/2010 |
| -          | 2011-0213805 A1 | 13/104,569        | US | UTL | Search Systems and Methods with Integration of User Annotations  | 5/10/2011 -  |           |
| -          | 2012-0233154 A1 | 13/192,805        | US | UTL | Search Systems and Methods with Integration of Aggregate User Annotations  | 7/28/2011 -  |           |
| -          | 2014-0114947 A1 | 14/143,373        | US | UTL | Search Systems and Methods with Integration of User Annotations  | 12/30/2013 - |           |

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|            |                 |                 |    |     |   |                      |
|------------|-----------------|-----------------|----|-----|---|----------------------|
| -          | -               | PCT/US05/08635  | WO | UTL | Search System and Methods with Integration of User Annotations  | 3/15/2005 -          |
| -          | -               | EP1611534       | EP | UTL | A System for Generating Search Results Including Searching by Subdomain Hints and Providing Sponsored Results by Subdomain                      | 4/5/2004 -           |
| -          | -               | EP2672403       | EP | UTL | A System of Generating Search Results Including Searching By Subdomain Hints And Providing Sponsored Results By Subdomain                       | 4/5/2004 -           |
| 10-1123426 | -               | 10-2005-7018923 | KR | UTL | A System for Generating Search Results Including Searching by Subdomain Hints and Providing Sponsored Results by Subdomain                      | 4/5/2004 2/27/2012   |
| -          | -               | 60/460,658      | US | PRV | Search System Using Search Subdomain and Hints to Subdomains in Search Query Statements and Sponsored Results                                   | 4/4/2003 -           |
| 7499914    | 20050228780     | 10/819,082      | US | UTL | Search System Using Search Subdomain and Hints To Subdomains In Search Query Statements And Sponsored Results On A Subdomain By-Subdomain Basis | 4/5/2004 3/3/2009    |
| 8271480    | 2009-0157642 A1 | 12/354,751      | US | UTL | Search System Using Search Subdomain And Hints To Subdomains In Search Query Statements And Sponsored Results On A Subdomain-By-Subdomain Basis | 1/15/2009 9/18/2012  |
| 8849796    | 2012-0330949    | 13/599,688      | US | UTL | Search System Using Search Subdomain And Hints To Subdomains In Search Query Statements And Sponsored Results On A Subdomain-By-Subdomain Basis | 8/30/2012 9/30/2014  |
| -          | -               | 14/496,209      | US | UTL | Search System Using Search Subdomain And Hints To Subdomains In Search Query Statements And Sponsored Results On A Subdomain-By-Subdomain Basis | 9/25/2014 -          |
| -          | 2015-0112959 A1 | 14/588,191      | US | UTL | Search System Using Search Subdomain And Hints To Subdomains In Search Query Statements And Sponsored Results On A Subdomain-By-Subdomain Basis | 12/31/2014 -         |
| -          | -               | -               | US | UTL | Search System Using Search Subdomain and Hints to Subdomains in Search Query Statements and Sponsored Results on a Subdomain                    | 4/5/2004 -           |
| -          | WO/2004/090754  | PCT/US04/010568 | WO | UTL | Subscription model for trusted email database for antispam  | 11/4/2003 -          |
| 7181764    | 2005-0097321 A1 | 10/975,698      | US | UTL | System and Method for a Subscription Model Trusted Email Database for Use in Antispam   | 10/28/2004 2/20/2007 |

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|         |                    |                  |    |     |  |                       |
|---------|--------------------|------------------|----|-----|--|-----------------------|
| -       | -                  | 947290           | EP | UTL | System and Method for Personalized Information Filtering and Alert Generation  | 7/12/2000 -           |
| -       | -                  | 60/143,473       | US | PRV | System and Method for Personalized Information Filtering and Alert Generation  | 7/12/1999 -           |
| 6381594 | -                  | 09/613,436       | US | UTL | Filtering and Alert Generation   | 7/11/2000 4/30/2002   |
| -       | -                  | PCT/US2000/19026 | WO | UTL | System and Method for Personalized Information Filtering and Alert Generation  | 7/12/2000 -           |
| -       | -                  | 60/540,505       | US | PRV | System and Method for Social Networking  | 1/29/2004 -           |
| 8612359 | US 2005-0171832 A1 | 10/866,954       | US | UTL | Method And System For Sharing Portal Subscriber Information in an Online Social Network  | 6/14/2004 12/17/2013  |
| 7885901 | US 2005-0171799 A1 | 10/863,926       | US | UTL | Method And System For Seeding Online Social Network Contacts   | 6/8/2004 2/8/2011     |
| -       | -                  | 60/544,639       | US | PRV | System and Method for Social Networking  | 2/13/2004 -           |
| 7269590 | US-2005-0177385-A1 | 10/832,172       | US | UTL | Method and System for Customizing Views of Information Associated with a Social Network User System And Method Of Information Filtering Using Measures Of Affinity Of A Relationship | 4/26/2004 9/11/2007   |
| 7707122 | US 2005-0171955 A1 | 10/946,636       | US | UTL | CONTROL FOR INVITING AN UNAUTHENTICATED USER TO GAIN ACCESS TO DISPLAY OF CONTENT THAT IS OTHERWISE ACCESSIBLE WITH AN AUTHENTICATION MECHANISM                                      | 9/21/2004 4/27/2010   |
| 8584258 | US-2006-0184997-A1 | 11/314,206       | US | UTL | DISPLAYING AGGREGATED NEW CONTENT BY SELECTED OTHER USERS BASED ON THEIR AUTHORIZATION LEVEL   | 12/20/2005 11/12/2013 |
| 8166069 | US-2006-0230061-A1 | 11/392,247       | US | UTL | CONTROL FOR ENABLING A USER TO PREVIEW DISPLAY OF SELECTED CONTENT BASED ON ANOTHER USERS AUTHORIZATION LEVEL  | 3/29/2006 4/24/2012   |
| 7599935 | US 2006-0184578 A1 | 11/314,201       | US | UTL | Method and System for Seeding Online Social Network Contacts   | 12/20/2005 10/6/2009  |
| -       | 2011-0125661 A1    | 13/022,399       | US | UTL | Social Network With Field Level Control of Data Exposure   | 2/7/2011 -            |
| -       | 2011-0289011 A1    | 13/197,409       | US | UTL | Social Network With Multiple Logins  | 8/3/2011 -            |
| -       | 2011-0289574 A1    | 13/197,449       | US | UTL | Social Network For Reciprocal Data Sharing   | 8/3/2011 -            |
| -       | 2011-0289153 A1    | 13/197,505       | US | UTL | Social Network For Providing Recommendations For Items of Interest   | 8/3/2011 -            |
| -       | 2012-0203846 A1    | 13/197,551       | US | UTL | DISPLAYING AGGREGATED NEW CONTENT BY SELECTED OTHER USER BASED ON THEIR AUTHORIZATION LEVEL  | 8/3/2011 -            |
| -       | 2012-0209914 A1    | 13/453,511       | US | UTL | AUTHORIZATION LEVEL  | 4/23/2012 -           |



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|            |                    |                   |    |     |   |                        |
|------------|--------------------|-------------------|----|-----|---|------------------------|
| -          | 2014-0067980 A1    | 14/076,883        | US | UTL | CONTROL FOR INVITING AN UNAUTHENTICATED USER TO GAIN ACCESS TO DISPLAY OF CONTENT THAT IS OTHERWISE ACCESSIBLE WITH AN AUTHENTICATION MECHANISM | 11/11/2013 -           |
| -          | -                  | 60/561,142        | US | PRV | Systems and Methods for Adaptive Scheduling of References to Documents  | 4/8/2004 -             |
| 8214358    | US-2009-0013006-A1 | 12/169,942        | US | UTL | Systems and Methods for Adaptive Scheduling of References to Documents  | 7/9/2008 - 7/3/2012    |
| 7539674    | US-2005-0229094-A1 | 10/897,064        | US | UTL | Systems and Methods for Adaptive Scheduling of References to Documents  | 7/22/2004 - 5/26/2009  |
| 8706722    | 2012-0239490 A1    | 13/485,077        | US | UTL | Systems and Methods for Adaptive Scheduling of References to Documents  | 5/31/2012 - 4/22/2014  |
| -          | 2014-0229272 A1    | 14/256,404        | US | UTL | References to Documents   | 4/18/2014 -            |
| -          | -                  | 4/758896          | EP | UTL | Universal Search Interface Systems and Methods SYSTEMS AND METHODS FOR GENERATING CONCEPT UNITS FROM SEARCH QUERIES                             | 4/5/2004 -             |
| -          | -                  | 4/758861          | EP | UTL | CONCEPT UNITS FROM SEARCH QUERIES   | 4/2/2004 -             |
| 10-0911606 | -                  | 10-2005-7018922   | KR | UTL | Universal Search Interface Systems and Methods SYSTEMS AND METHODS FOR GENERATING CONCEPT UNITS FROM SEARCH QUERIES                             | 4/5/2004 - 8/3/2009    |
| 10-1077699 | -                  | 10-2005-7018930   | KR | UTL | SYSTEMS AND METHODS FOR GENERATING CONCEPT UNITS FROM SEARCH QUERIES  | 4/2/2004 - 10/21/2011  |
| 7051023    | US 2004-0199498 A1 | 10/713,576        | US | UTL | CONCEPT UNITS FROM SEARCH QUERIES   | 11/12/2003 - 5/23/2006 |
| 7698327    | US 2004-0249801 A1 | 10/818,752        | US | UTL | Universal Search Interface Systems and Methods Vector Analysis of Histograms for Units of a Concept Network in Search Query Processing          | 4/5/2004 - 4/13/2010   |
| 7340460    | -                  | 10/797,586        | US | UTL | Concept Network in Search Query Processing  | 3/9/2004 - 3/4/2008    |
| -          | WO 2004/090787     | PCT/US2004/010491 | WO | UTL | Universal Search Interface Systems and Methods SYSTEMS AND METHODS FOR GENERATING CONCEPT UNITS FROM SEARCH QUERIES                             | 4/5/2004 -             |
| -          | WO2004/09067       | PCT/US2004/010386 | WO | UTL | SYSTEMS AND METHODS FOR MANAGING AND USING MULTIPLE CONCEPT NETWORKS FOR ASSISTED SEARCH PROCESSING   | 4/2/2004 -             |
| -          | -                  | 60/634,022        | US | PRV | SYSTEMS AND METHODS FOR MANAGING AND USING MULTIPLE CONCEPT NETWORKS FOR ASSISTED SEARCH PROCESSING   | 12/6/2004 -            |
| 7707201    | US-2006-0167896-A1 | 11/295,166        | US | UTL | FOR ASSISTED SEARCH PROCESSING  | 12/5/2005 - 4/27/2010  |
| -          | -                  | 60/180,379        | US | PRV | Systems and Methods for Predicting Traffic on Internet Sites  | 2/4/2000 -             |
| 6801945    | -                  | 09/773,471        | US | UTL | Systems and Methods for Predicting Traffic on Internet Sites  | 1/31/2001 - 10/5/2004  |
| 7558865    | 2005-0050215 A1    | 10/956,662        | US | UTL | Systems and Methods for Predicting Traffic on Internet Sites  | 10/1/2004 - 7/7/2009   |

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|            |                    |                  |    |     |  |                      |
|------------|--------------------|------------------|----|-----|--|----------------------|
| -          | -                  | PCT/US2001/03708 | WO | UTL | Systems and Methods for Predicting Traffic on Internet Sites   | 2/2/2001 -           |
| -          | -                  | 60/571,025       | US | PRV | SYSTEMS AND METHODS FOR PROVIDING NOTIFICATION AND FEEDBACK BASED ON ELECTRONIC PAYMENT TRANSACTIONS | 5/14/2004 -          |
| -          | US 2005-0256809 A1 | 10/991,539       | US | UTL | Systems and Methods For Providing Notification And Feedback Based On Electronic Payment Transactions | 11/17/2004 -         |
| 1678639    | -                  | 602004045364     | DE | UTL | Systems and Methods for Search Processing Using Superunits   | 10/7/2004 6/25/2014  |
| 1678639    | 1678639            | 4794443          | EP | UTL | Systems and Methods for Search Processing Using SuperUnits   | 10/7/2004 6/25/2014  |
| 1678639    | -                  | 4794443          | GB | UTL | Systems and Methods for Search Processing Using SuperUnits   | 10/7/2004 6/25/2014  |
| 10-0851706 | -                  | 10-2006-7008727  | KR | UTL | Systems and Methods for Search Processing Using SuperUnits   | 10/7/2004 8/5/2008   |
| 1366766    | -                  | 93130562         | TW | UTL | Systems and methods for search processing using units  | 10/8/2004 6/21/2012  |
| -          | -                  | 60/510,220       | US | PRV | Systems and Methods for Search Processing Using Clustering of Units                                  | 10/9/2003 -          |
| 7346629    | US 2005-0080795 A1 | 10/797,614       | US | UTL | Systems and methods for search processing using superunits   | 3/9/2004 3/18/2008   |
| -          | WO 2005/036351     | PCT/US04/033097  | WO | UTL | Systems and Methods for Search Processing Using Super-Units  | 10/7/2004 -          |
| -          | -                  | 60/517,614       | US | PRV | Techniques for establishing a trusted email database and assign universal trust for email addresses  | 11/4/2003 -          |
| 7155738    | 2005-0097319 A1    | 10/886,891       | US | UTL | System and Method for Managing a Trusted Email Datstore  | 7/8/2004 12/26/2006  |
| -          | -                  | 60/524,096       | US | PRV | Techniques for Selectively Performing Searches against Data and Providing Search Results             | 11/20/2003 -         |
| 7747638    | -                  | 10/964,980       | US | UTL | Techniques for Selectively Performing Searches against Data and Providing Search Results             | 10/13/2004 6/29/2010 |
| -          | -                  | 60/284,353       | US | PRV | Use of Network Traffic Logs for Search Enhancement   | 4/16/2001 -          |
| 7398271    | -                  | 10/124,509       | US | UTL | Using Network Traffic Logs for Search Enhancement  | 4/16/2002 7/8/2008   |
| 8203952    | US-2008-0270484-A1 | 12/168,797       | US | UTL | Using Network Traffic Logs For Search Enhancement  | 7/7/2008 6/19/2012   |
| 7996397    | US-2008-0270404-A1 | 12/168,813       | US | UTL | Using Network Traffic Logs For Search Enhancement  | 7/7/2008 8/9/2011    |
| 8509266    | US 2012-0254144 A1 | 13/492,508       | US | UTL | Using Network Traffic Logs For Search Engine Index Updates   | 6/8/2012 8/13/2013   |
| -          | -                  | 60/471,822       | US | PRV | Mapping Method and System  | 5/20/2003 -          |
| -          | 2006-0026170 A1    | 11/137,603       | US | UTL | Mapping Method and System  | 5/25/2005 -          |

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|            |                    |                   |    |     |  |              |            |
|------------|--------------------|-------------------|----|-----|--|--------------|------------|
| 10-1393839 | -                  | 10-2007-7013104   | KR | UTL | Search System Presenting Active Abstracts Including Linked Terms   | 11/10/2005   | 5/2/2014   |
| -          | -                  | 60/627,254        | US | PRV | Search System Presenting Active Abstracts Including Linked Terms   | 11/11/2004 - |            |
| 7606794    | -                  | 11/169,521        | US | UTL | Active Abstracts   | 6/28/2005    | 10/20/2009 |
| -          | -                  | 60/627,189        | US | PRV | Document Navigation by Active Abstracts  | 11/11/2004 - |            |
| -          | WO 2006/053167     | PCT/US2005/40831  | WO | UTL | Search System Presenting Active Abstracts Including Linked Terms   | 11/10/2005 - |            |
| -          | -                  | 60/544,880        | US | PRV | Integrated Instant Messaging, Routing and Telephone Services Billing System  | 2/13/2004 -  |            |
| 7634072    | 2005-0259798       | 11/056,212        | US | UTL | Integrated Instant Messaging, Routing and Telephone Services Billing System  | 2/10/2005    | 12/15/2009 |
| -          | 1730650            | 5713547           | EP | UTL | A Predictive Communication Routing Scheme Using Instant Messaging Preferences and/or Settings for Routing Packet Traffic for Voice, Video or Other Multimedia Communications | 2/11/2005 -  |            |
| 10-0901909 | -                  | 10-2006-7016206   | KR | UTL | A Predictive Communication Routing Scheme Using Instant Messaging Preferences and/or Settings for Routing Packet Traffic for Voice, Video or Other Multimedia Communications | 2/11/2005    | 6/2/2009   |
| -          | -                  | 60/544,914        | US | PRV | A Predictive Communication Routing Scheme Using Instant Messaging Preferences and/or Settings for Routing Packet Traffic for Voice, Video or Other Multimedia Communications | 2/13/2004 -  |            |
| 8223747    | US 2006-0023695 A1 | 11/056,485        | US | UTL | Predictive communication routing scheme using instant messaging preferences and/or settings for routing packet traffic for voice, video and other multimedia communications  | 2/10/2005    | 7/17/2012  |
| -          | WO 2005/079393     | PCT/US2005/004700 | WO | UTL | A Predictive Communication Routing Scheme Using Instant Messaging Preferences and/or Settings for Routing Packet Traffic for Voice, Video or Other Multimedia Communications | 2/11/2005 -  |            |
| -          | 1 782 380          | 5774750           | EP | UTL | Search Systems and Methods using in-line Contextual Queries  | 7/21/2005 -  |            |
| 10-1191531 | -                  | 10-2007-7005011   | KR | UTL | Search Systems and Methods Using In-Line Contextual Queries  | 7/21/2005    | 10/9/2012  |
| 10-1303488 | -                  | 10-2011-7031087   | KR | UTL | Search Systems and Methods using in-line Contextual Queries  | 7/21/2005    | 8/28/2013  |
| 7958115    | US 2006-0026013 A1 | 10/903,283        | US | UTL | Search Systems and Methods using in-line Contextual Queries  | 7/29/2004    | 6/7/2011   |
| 7603349    | 20080098026        | 11/033,417        | US | UTL | User Interface for Search Systems and Methods using in-line Contextual Queries   | 1/10/2005    | 10/13/2009 |
| 7856441    | -                  | 11/033,100        | US | UTL | Search Systems and Methods using in-line Contextual Queries  | 1/10/2005    | 12/21/2010 |
| 7451152    | 20080098026        | 11/129,096        | US | UTL | Search Systems and Methods for Contextual Transaction Proposals  | 5/12/2005    | 11/11/2008 |

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|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 8655872    | US-2009-0070326-A1 | 12/251,638        | US | UTL | Search Systems and Methods using in-line Contextual Queries                            | 10/15/2008 | 2/18/2014  |
| 8108385    | US-2010-0070484-A1 | 12/553,636        | US | UTL | User Interface for Search Systems and Methods using in-line Contextual Queries         | 9/3/2009   | 1/31/2012  |
| 8301614    | 2012-0110009       | 13/345,686        | US | UTL | User Interfaces For Search Systems Using In-Line Contextual Queries                    | 1/7/2012   | 10/30/2012 |
| 8812540    | 2013-0024474A1     | 13/631,663        | US | UTL | User Interfaces For Search Systems Using In-Line Contextual Queries                    | 9/28/2012  | 8/19/2014  |
| -          | 2014-0324814 A1    | 14/327,500        | US | UTL | Contextual Queries   | 7/9/2014   | -          |
| -          | wo 2006/014835 A2  | PCT/US2005/026184 | WO | UTL | Search Systems and Methods using in-line Contextual Queries                            | 7/21/2005  | -          |
| -          | -                  | PCT/US2006/013389 | WO | UTL | Systems and Methods for Contextual Transaction Proposals                               | 4/11/2006  | -          |
| 7278111    | US-2004125137-A1   | 10/330,898        | US | UTL | Systems and Methods for Selecting a Date or Range of Dates                             | 12/26/2002 | 10/2/2007  |
| 7496857    | 20040212636-A1     | 10/424,073        | US | UTL | Systems and Methods for Relating Events to a Date or Date Range Selection              | 4/25/2003  | 2/24/2009  |
| -          | -                  | 60/512,066        | US | PRV | Search-Based Email Client  | 10/17/2003 | -          |
| 7620624    | -                  | 10/966,265        | US | UTL | Systems and Methods for Indexing Content for Fast and Scalable Retrieval               | 10/15/2004 | 11/17/2009 |
| 7849063    | US2005-0198076-A1  | 10/966,566        | US | UTL | Systems and Methods for Indexing Content for Fast and Scalable Retrieval               | 10/15/2004 | 12/7/2010  |
| -          | 2013-0246938-A1    | 13/854,904        | US | UTL | Systems And Methods For A Search-Based Email Client                                    | 4/1/2013   | -          |
| 7720845    | -                  | 10/917,742        | US | UTL | Systems and Methods for Updating Query Results Based on Query Deltas                   | 8/13/2004  | 5/18/2010  |
| -          | -                  | 3759455           | EP | UTL | ONLINE SOFTWARE RENTING  | 9/16/2003  | -          |
| 10-0979770 | -                  | 10-2005-7004429   | KR | UTL | ONLINE SOFTWARE RENTING  | 9/16/2003  | 8/27/2010  |
| -          | A1 20040128250     | 60/411,279        | US | PRV | ON-LINE SOFTWARE RENTAL  | 9/16/2002  | -          |
| 7523071    | A1 20040128250     | 10/667,129        | US | UTL | ON-LINE SOFTWARE RENTAL  | 9/16/2003  | 4/21/2009  |
| 8583558    | 2009-0210317       | 12/426,910        | US | UTL | On-Line Software Rental  | 4/20/2009  | 11/12/2013 |
| -          | -                  | PCT/US03/30005    | WO | UTL | ONLINE SOFTWARE RENTING  | 9/16/2003  | -          |
| -          | -                  | 60/567,316        | US | PRV | METHOD AND APPARATUS FOR PERFORMING A SEARCH   | 4/30/2004  | -          |
| 7519581    | -                  | 11/119,637        | US | UTL | METHOD AND APPARATUS FOR PERFORMING A SEARCH   | 5/2/2005   | 4/14/2009  |
| -          | -                  | 60/520,845        | US | PRV | Method and Apparatus for Performing a Search   | 11/18/2003 | -          |
| 7844589    | US 2005-0108210 A1 | 10/725,197        | US | UTL | Method and Apparatus for Performing a Search   | 12/1/2003  | 11/30/2010 |
| 9201963    | 2011-0179005 A1    | 12/941,181        | US | UTL | Method and Apparatus for Performing a Search   | 1/18/2010  | 12/1/2015  |
| -          | -                  | 14/954,042        | US | UTL | Method and Apparatus for Performing a Search   | 11/30/2015 | -          |
| 1157349    | 2007-0110868       | 10-2007-7020803   | KR | UTL | Re-Ranking and Increasing the Relevance of the Results of Searches                     | 3/10/2006  | 6/11/2012  |
| 7574436    | US-2006-0206476-A1 | 11/078,685        | US | UTL | Re-Ranking Search Results Increasing the Relevance of the Results of Internet Searches | 3/10/2005  | 8/11/2009  |

SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |              |            |
|------------|--------------------|-------------------|----|-----|---|--------------|------------|
| -          | WO 2006/09331      | PCT/US2006/008961 | WO | UTL | Re-Ranking Search Results Increasing the Relevance of the Results of Internet Searches<br>METHOD AND SYSTEM OF PROVIDING BROWSER FUNCTIONALITY THROUGH A BROWSER BUTTON   | 3/10/2006 -  |            |
| -          | -                  | 60/516,196        | US | PRV | Method And System Of Providing Browser Functionality Through A Browser Button   | 10/31/2003 - |            |
| 7506260    | US 2005-0198220 A1 | 10/794,705        | US | UTL | Search Processing with Automatic Categorization of Queries  | 3/5/2004     | 3/17/2009  |
| 10-1211800 | -                  | 10-2007-7014770   | KR | UTL | Search Processing with Automatic Categorization of Queries  | 11/29/2005   | 12/6/2012  |
| 7620628    | US-2006-0122979-A1 | 11/006,466        | US | UTL | Search Processing with Automatic Categorization of Queries  | 12/6/2004    | 11/17/2009 |
| -          | WO 2006/062772     | PCT/US05/043196   | WO | UTL | Automatic Generation of Taxonomies for Categorizing Queries and Search Query Processing Using Taxonomies<br>CLICK THROUGH RANKING OF IMAGES AND OTHER DATA<br>Country Tagging<br>METHOD AND SYSTEM FOR GENERATING A SET OF SEARCH TERMS | 11/29/2005 - |            |
| 7428533    | US-2006-0122994-A1 | 11/006,463        | US | UTL | Automatic Generation of Taxonomies for Categorizing Queries and Search Query Processing Using Taxonomies<br>CLICK THROUGH RANKING OF IMAGES AND OTHER DATA<br>Country Tagging<br>METHOD AND SYSTEM FOR GENERATING A SET OF SEARCH TERMS | 12/6/2004    | 9/23/2008  |
| 7634472    | US-2005-0120311-A1 | 10/729,621        | US | UTL | Click Through Ranking of Images and Other Data  | 12/5/2003    | 12/15/2009 |
| 7441044    | US 2005-0097202 A1 | 10/705,181        | US | UTL | Country Tagging   | 11/10/2003   | 10/21/2008 |
| 2398769    | -                  | 2398769           | CA | UTL | Method and System for Generating a Set of Search Terms  | 1/5/2001     | 5/5/2009   |
| -          | -                  | 1900902           | EP | UTL | Method and System for Generating a Set of Search Terms  | 1/5/2001 -   |            |
| 2375860    | -                  | 220223            | GB | UTL | Method and System for Generating a Set of Search Terms  | 1/5/2001     | 4/21/2004  |
| 7266551    | 2004-0230574 A1    | 10/795,556        | US | UTL | Method and System for Generating a Set of Search Terms  | 3/5/2004     | 9/4/2007   |
| 6704727    | -                  | 09/494,818        | US | UTL | Method and System for Generating a Set of Search Terms  | 1/31/2000    | 3/9/2004   |
| -          | WO 01/55835        | US01/00332        | WO | UTL | Method and System for Generating a Set of Search Terms  | 1/5/2001 -   |            |
| 10-1245089 | -                  | 10-2008-7005369   | KR | UTL | Database Search System and Method of Determining a Value of a Keyword in a Search   | 7/8/2005     | 3/12/2013  |
| 7716219    | US 2006-0010105 A1 | 10/887,457        | US | UTL | Database Search System and Method of Determining a Value of a Keyword in a Search   | 7/8/2004     | 5/11/2010  |
| -          | -                  | PCT/US2005/024148 | WO | UTL | Database Search System and Method of Determining a Value of a Keyword in a Search   | 7/8/2005 -   |            |
| -          | -                  | 11/320,556        | US | UTL | Efficiently spaced and used advertising in network-served multimedia documents  | 12/27/2005 - |            |
| 2002236974 | -                  | 2002236974        | AU | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002     | 1/4/2008   |
| 1395923    | -                  | 2703347           | EP | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002     | 6/2/2010   |

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REEL: 054675 FRAME: 0017

SCHEDULE OF ASSETS

|            |                    |                  |    |     |   |            |            |
|------------|--------------------|------------------|----|-----|---|------------|------------|
| -          | -                  | 9013333          | EP | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002   | -          |
| 1395923    | -                  | 2703347          | FR | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002   | 6/2/2010   |
| 1395923    | -                  | 2703347          | GB | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002   | 6/2/2010   |
| 10-0874693 | -                  | 10-2003-7010512  | KR | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002   | 12/11/2008 |
| 7406529    | 2002-0111993 A1    | 09/780,962       | US | UTL | System and Method for Detecting and Verifying Digitized Content Over a Computer Network   | 2/9/2001   | 7/29/2008  |
| 7853670    | 2008-0270570 A1    | 12/139,680       | US | UTL | System and Method for Detecting and Verifying Digitized Content Over a Computer Network   | 6/16/2008  | 12/14/2010 |
| -          | -                  | PCT/US2002/03504 | WO | UTL | System and Method for Detecting and Verifying Digitized Content over a Computer Network   | 2/8/2002   | -          |
| 7689575    | US-2006-0143208-A1 | 11/027,208       | US | UTL | Bitmask Access for Managing Blog Content  | 12/29/2004 | 3/30/2010  |
| 8166014    | US-2004-0220915-A1 | 10/429,209       | US | UTL | Detection of improper search queries in a wide area network search engine   | 5/2/2003   | 4/24/2012  |
| -          | WO2004/100046      | PCT/US04/13228   | WO | UTL | DETECTION OF IMPROPER SEARCH QUERIES IN A WIDE AREA NETWORK SEARCH ENGINE SYSTEM AND METHOD FOR CONDUCTING AN AUCTION-BASED RANKING OF SEARCH RESULTS ON A COMPUTER NETWORK | 4/30/2004  | -          |
| 7555485    | US 2004-0039733 A1 | 10/226,103       | US | UTL | System and Method for Conducting an Auction-Based Ranking of Search Results on a Computer Network   | 8/22/2002  | 6/30/2009  |
| 7702672    | US-2009-0240600-A1 | 12/473,663       | US | UTL | SYSTEM AND METHOD FOR AN AUCTION OF SEARCH RESULTS ON A NETWORK   | 5/28/2009  | 4/20/2010  |
| -          | WO/2004/019171     | PCT/US03/26258   | WO | UTL | Method and apparatus for identifying related searches in a database search system   | 8/21/2003  | -          |
| 2001263275 | 2001-6327501       | 2001263275       | AU | UTL | METHOD AND APPARATUS FOR IDENTIFYING RELATED SEARCHES IN A DATABASE SEARCH SYSTEM   | 5/18/2001  | 11/4/2005  |
| 2409642    | 2409642            | 2409642          | CA | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2001  | 11/2/2010  |
| 1297453    | -                  | 1937557          | CH | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2001  | 4/21/2010  |
| 60141905   | -                  | 1937557          | DE | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2001  | 4/21/2010  |
| 1297453    | 1297453            | 1937557          | EP | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2001  | 4/21/2010  |
| 1297453    | -                  | 1937557          | FR | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2001  | 4/21/2010  |
| 2388678    | -                  | 229483           | GB | UTL | SYSTEM  | 5/18/2001  | 12/1/2004  |
| 1297453    | -                  | 1937557          | IE | UTL | Method and Apparatus for Identifying Related Searches in a Database Search System   | 5/18/2011  | 4/21/2010  |

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REEL: 054675 FRAME: 0018

SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |            |           |
|------------|--------------------|-------------------|----|-----|---|------------|-----------|
| 10-0699977 | 10-2003-0003739    | 10-2002-7015584   | KR | UTL | METHOD AND APPARATUS FOR IDENTIFYING RELATED SEARCHES IN A DATABASE SEARCH SYSTEM                                 | 5/18/2001  | 3/20/2007 |
| 10-0719009 | -                  | 10-2005-7010269   | KR | UTL | Apparatus for Identifying Related Searches in a Database Search System  | 5/18/2001  | 5/10/2007 |
| 6876997    | -                  | 09/575,894        | US | UTL | METHOD AND APPARATUS FOR IDENTIFYING RELATED SEARCHES IN A DATABASE SEARCH SYSTEM                                 | 5/22/2000  | 4/5/2005  |
| 7657555    | US-2005-0240557-A1 | 11/092,182        | US | UTL | METHOD AND APPARATUS FOR IDENTIFYING RELATED SEARCHES IN A DATABASE SEARCH SYSTEM                                 | 3/29/2005  | 2/2/2010  |
| -          | WO 2001/90947      | US01/16161        | WO | UTL | METHOD AND APPARATUS FOR IDENTIFYING RELATED SEARCHES IN A DATABASE SEARCH SYSTEM                                 | 5/18/2001  | -         |
| 7406465    | US-2006-0129534-A1 | 11/013,298        | US | UTL | System and Methods for Ranking the Relative Value of Terms in a Multi-Term Search Query Using Deletion Prediction | 12/14/2004 | 7/29/2008 |
| -          | WO 2006/065944     | PCT/US2005/045329 | WO | UTL | System and Methods for Ranking the Relative Value of Terms in a Multi-Term Search Query Using Deletion Prediction | 12/14/2005 | -         |
| 7203747    | US 2003-0037093 A1 | 09/865,988        | US | UTL | Load Balancing System and Method In A Multiprocessor System   | 5/25/2001  | 4/10/2007 |
| 2003204327 | -                  | 2003204327        | AU | UTL | Method and Apparatus for Categorizing and Presenting Documents of a Distributed Database                          | 5/23/2003  | 5/29/2008 |
| 2429338    | -                  | 2429338           | CA | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 5/22/2003  | 1/16/2007 |
| -          | EP1367509          | 3253259           | EP | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 5/23/2003  | -         |
| 306287     | -                  | 306287            | FR | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 5/7/2003   | 5/13/2008 |
| 10-852034  | 10-2003-0091751    | 10-2003-0032717   | KR | UTL | Method and Apparatus for Categorizing and Presenting Documents of a Distributed Database                          | 5/23/2003  | 8/6/2008  |
| 7231395    | US 2003-0220912 A1 | 10/155,290        | US | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 5/24/2002  | 6/12/2007 |
| 8260786    | 2005/0251496 A1    | 11/061,974        | US | UTL | Method and Apparatus for Categorizing and Presenting Documents of a Distributed Database                          | 2/17/2005  | 9/4/2012  |
| 7792818    | US-2006-0265400-A1 | 11/413,627        | US | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 4/28/2006  | 9/7/2010  |
| -          | WO 2006/088718     | PCT/US2006/004551 | WO | UTL | METHOD AND APPARATUS FOR CATEGORIZING AND PRESENTING DOCUMENTS OF A DISTRIBUTED DATABASE                          | 2/9/2006   | -         |

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REEL: 054675 FRAME: 0019

SCHEDULE OF ASSETS

|             |                    |                     |    |     |   |                      |
|-------------|--------------------|---------------------|----|-----|---|----------------------|
| -           | -                  | 60/229,721          | US | PRV | System and method of sending chunks of data over wireless devices   | 8/31/2000 -          |
| 7143181     | -                  | 09/938,939          | US | UTL | System and Method for Sending Chunks of Data over Wireless Devices  | 8/24/2001 11/28/2006 |
| -           | -                  | 60/592,799          | US | PRV | Methods and Systems for Use in a Computerized Search-Based Advertising Market   | 7/30/2004 -          |
| -           | 2006-0026064 A1    | 11/026,517          | US | UTL | Platform for advertising data integration and aggregation   | 12/30/2004 -         |
| -           | US 2006-0026061 A1 | 11/026,505          | US | UTL | PLATFORM FOR ENABLING AN ONLINE ADVERTISING MARKETPLACE   | 12/30/2004 -         |
| -           | 2006-0026060 A1    | 11/026,496          | US | UTL | System and method for provision of advertiser services including client application   | 12/30/2004 -         |
| -           | -                  | PCT/US2005/027332   | WO | UTL | PLATFORM FOR ADVERTISING DATA INTEGRATION AND AGGREGATION   | 7/29/2005 -          |
| 772525      | -                  | 49370/99            | AU | UTL | A search system and method for retrieval of data, and the use thereof in a search engine  | 7/9/1999 8/12/2004   |
| P19912015-1 | -                  | P19912015-1         | BR | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 12/13/2011  |
| 2337079     | -                  | 2337079             | CA | UTL | Search System and Method for Retrieval of Data, and the use thereof in a Search Engine  | 7/9/1999 7/4/2006    |
| 69900855    | -                  | 999333297           | DE | UTL | A SEARCH SYSTEM AND METHOD FOR RETRIEVAL OF DATA, AND THE USE THEREOF IN A SEARCH ENGINE  | 7/9/1999 1/30/2002   |
| 1095326     | 1095326 A1         | 999333297           | EP | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 1/30/2002   |
| 1095326     | -                  | 23754BE/2002        | ES | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 1/30/2002   |
| 1095326     | -                  | 999333297           | FR | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 1/30/2002   |
| 1095326     | -                  | 999333297           | GB | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 1/30/2002   |
| 202355      | -                  | IN/PCT/2001/144/CHE | IN | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 11/3/2006   |
| 1095326     | -                  | 23754BE/02          | IT | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 12/20/2001  |
| 10-0414236  | -                  | 10-2001-7000436     | KR | UTL | A Search System and Method for Retrieval of Data Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine | 7/9/1999 12/23/2003  |
| 77793       | -                  | 2000006935-1        | SG | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 12/31/2001  |
| 6377945     | -                  | 09/486,726          | US | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 3/9/2000 4/23/2002   |
| -           | WO 2000/03315      | PCT/NO99/00233      | WO | UTL | Search System and Method for Retrieval of Data, and the Use Thereof in a Search Engine  | 7/9/1999 -           |
| 7184972     | US 2003-0115152 A1 | 10/022,149          | US | UTL | RETAIL COUPON DISTRIBUTION APPARATUS AND METHOD   | 12/14/2001 2/27/2007 |
| -           | -                  | 60/546,699          | US | PRV | Computerized Advertising Offer Exchange   | 2/20/2004 -          |

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REEL: 054675 FRAME: 0020



SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |             |            |
|------------|--------------------|-------------------|----|-----|---|-------------|------------|
| -          | 2005-0187818 A1    | 10/783,383        | US | UTL | Computerized advertising offer exchange<br>Concept Valuation In A Term-Based Concept<br>Market                              | 2/20/2004 - |            |
| -          | 2014-0122316 A1    | 14/010,361        | US | UTL | Method and System For Blending Search Engine<br>Results From Disparate Sources Into One<br>Search Result                    | 8/26/2013 - |            |
| 10-0778159 | -                  | 10-2005-7020296   | KR | UTL | Method and System For Blending Search Engine<br>Results From Disparate Sources Into One<br>Search Result                    | 4/23/2004   | 11/14/2007 |
| 7219090    | US-2004-0215607-A1 | 10/424,171        | US | UTL | Method and System For Blending Search Engine<br>Results From Disparate Sources Into One<br>Search Result                    | 4/25/2003   | 5/15/2007  |
| -          | WO2004/097570      | PCT/US2004/012815 | WO | UTL | METHOD AND APPARATUS FOR MACHINE<br>LEARNING A DOCUMENT RELEVANCE<br>FUNCTION   | 4/23/2004 - |            |
| 7197497    | US 2004-0215606 A1 | 10/424,170        | US | UTL | METHOD AND APPARATUS FOR MACHINE<br>LEARNING A DOCUMENT RELEVANCE<br>FUNCTION   | 4/25/2003   | 3/27/2007  |
| -          | US-2004-0215606-A1 | PCT/US2004/012813 | WO | UTL | Method and Apparatus for Efficient Training of<br>Support Vector Machines   | 4/25/2004 - |            |
| 7440944    | -                  | 10/949,821        | US | UTL | Automated Processing of Appropriateness<br>Determination of Content for Search Listings in<br>Wide Area Network Searches    | 9/24/2004   | 10/21/2008 |
| 2003270485 | -                  | 2003270485        | AU | UTL | AUTOMATED PROCESSING OF<br>APPROPRIATENESS DETERMINATION OF<br>CONTENT SEARCH LISTINGS IN WIDE AREA<br>NETWORK SEARCHES     | 9/9/2003    | 1/8/2009   |
| 10-0741580 | -                  | 10-2005-7004358   | KR | UTL | CONTENT SEARCH LISTINGS IN WIDE AREA<br>NETWORK SEARCHES  | 9/9/2003    | 7/13/2007  |
| 6983280    | US 2004-0054661 A1 | 10/244,051        | US | UTL | AUTOMATED PROCESSING OF<br>APPROPRIATENESS DETERMINATION OF<br>CONTENT SEARCH LISTINGS IN WIDE AREA<br>NETWORK SEARCHES     | 9/13/2002   | 1/3/2006   |
| -          | WO/2004/025516     | PCT/US03/28323    | WO | UTL | System and Method for Influencing a Position on a<br>Search Result List Generated by a Computer                             | 9/9/2003 -  |            |
| 769955     | -                  | 51714/00          | AU | UTL | Network Search Engine   | 5/26/2000   | 5/22/2008  |
| 2003200436 | -                  | 2003200436        | AU | UTL | AUTOMATIC FLIGHT MANAGEMENT IN AN<br>ONLINE MARKETPLACE   | 1/31/2003   | 5/8/2008   |
| 2008229720 | -                  | 2008229720        | AU | UTL | Automatic flight management in an on-line<br>marketplace  | 2/10/2003   | 2/24/2011  |
| 2375132    | -                  | 2375132           | CA | UTL | SYSTEM AND METHOD FOR INFLUENCING A<br>POSITION ON A SEARCH RESULT LIST<br>GENERATED BY A COMPUTER NETWORK<br>SEARCH ENGINE | 5/26/2000   | 3/22/2011  |

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REEL: 054675 FRAME: 0021

SCHEDULE OF ASSETS

|            |                    |                  |    |     |  |            |            |
|------------|--------------------|------------------|----|-----|--|------------|------------|
| 2413105    | -                  | 2413105          | CA | UTL | RECOMMENDING SEARCH TERMS USING COLLABORATIVE FILTERING AND WEB SPIDERING  | 11/18/2002 | 7/7/2009   |
| -          | -                  | -                | CN | UTL | A algorithm to auto-generate new bidding keyword for advertiser in curveball and moneyball                                       | -          | -          |
| 215627     | 2833377            | 215627           | FR | UTL | Recommending Search Terms Using Collaborative Filtering and Web Spidering  | 12/11/2002 | 8/19/2015  |
| 10-0908754 | -                  | 10-2008-30648    | KR | UTL | Recommending Search Terms Using Collaborative Filtering and Web Spidering  | 4/2/2008   | 7/14/2009  |
| 273051     | -                  | PA/a/2001/012340 | MX | UTL | System and Method for Influencing a Position on a Search Result List Generated By a Computer Network Search Engine               | 5/26/2000  | 1/6/2010   |
| 515534     | -                  | 515534           | NZ | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 5/26/2000  | 12/8/2003  |
| 85291      | -                  | 200107346-9      | SG | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 5/26/2000  | 5/31/2005  |
| 6269361    | -                  | 09/322,677       | US | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 5/28/1999  | 7/31/2001  |
| 7092901    | 2001-0042064       | 09/911,674       | US | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 7/24/2001  | 8/15/2006  |
| 6978263    | US 2001-0051940 A1 | 09/872,737       | US | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 6/1/2001   | 12/20/2005 |
| 7110993    | US 2003-0208474 A1 | 09/915,801       | US | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 7/25/2001  | 9/19/2006  |
| 6983272    | US 2001-0047354 A1 | 09/918,241       | US | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 7/30/2001  | 1/3/2006   |
| 7835943    | US 2002-0169760 A1 | 09/922,028       | US | UTL | System and Method for Providing Place and Price Protection in a Search Result List Generated by a Computer Network Search Engine | 8/3/2001   | 11/16/2010 |

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REEL: 054675 FRAME: 0022

SCHEDULE OF ASSETS

|         |                    |            |    |     |   |            |            |
|---------|--------------------|------------|----|-----|---|------------|------------|
| 7065500 | US 2002-0165849 A1 | 09/963,855 | US | UTL | AUTOMATIC ADVERTISER NOTIFICATION FOR A SYSTEM FOR PROVIDING PLACE AND PRICE PROTECTION IN A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE | 9/26/2001  | 6/20/2006  |
| 7225182 | US 2003-0055816 A1 | 10/020,712 | US | UTL | RECOMMENDING SEARCH TERMS USING COLLABORATIVE FILTERING AND WEB SPIDERING   | 12/11/2001 | 5/29/2007  |
| 7231358 | US 2003-0149622 A1 | 10/072,220 | US | UTL | AUTOMATIC FLIGHT MANAGEMENT IN AN ONLINE MARKETPLACE  | 2/8/2002   | 6/12/2007  |
| 7499874 | 2006-0190328 A1    | 11/318,243 | US | UTL | Automatic Flight Management in an Online Marketplace  | 12/23/2005 | 3/3/2009   |
| 7464079 | US-2006-0136404-A1 | 11/323,729 | US | UTL | System and Method for Influencing a Position on a Search Result List Generated by a Computer Network Search Engine  | 12/19/2005 | 12/9/2008  |
| 7783540 | US-2006-0143096-A1 | 11/359,737 | US | UTL | System and Method for Influencing a Position On a Search Result List Generated by a Computer Network Search Engine  | 2/22/2006  | 8/24/2010  |
| 7702537 | 2006-0190354 A1    | 11/409,786 | US | UTL | SYSTEM AND METHOD FOR ENABLING MULTI-ELEMENT BIDDING FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE         | 4/24/2006  | 4/20/2010  |
| 7363300 | US-2006-0212447-A1 | 11/438,378 | US | UTL | System and Method For Influencing a Position on a Search Result List Generated by a Computer Network Search Engine  | 5/22/2006  | 4/22/2008  |
| 7603294 | 20060247981        | 11/454,751 | US | UTL | Automatic Advertiser Notification for a System for Providing Place and Price Protection in a Search Result List Generated by a Computer Network Search Engine | 6/15/2006  | 10/13/2009 |
| 7035812 | US 2003-0033292 A1 | 10/061,388 | US | UTL | System & Method for Enabling Multi-Element Bidding for Influencing a Position on a Search Result List Generated by a Computer Network Search Engine           | 2/1/2002   | 4/25/2006  |
| 8015063 | 2010-0161428 A1    | 12/713,080 | US | UTL | SYSTEM AND METHOD FOR ENABLING MULTI-ELEMENT BIDDING FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE         | 2/25/2010  | 9/6/2011   |
| 8527533 | 2011-0022623       | 12/842,541 | US | UTL | Keyword Suggestion System for a Computer Network Search Engine  | 7/23/2010  | 9/3/2013   |
| -       | 2013-0346190 A1    | 13/960,201 | US | UTL | System And Method For Influencing A Position On A Search Result List Generated By A Computer Network Search Engine  | 8/6/2013 - |            |

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SCHEDULE OF ASSETS

|           |                    |            |    |     |  |              |           |
|-----------|--------------------|------------|----|-----|--|--------------|-----------|
| -         | WO 2000/73960      | US00/14753 | WO | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 5/26/2000 -  |           |
| -         | WO 2003/014865     | US02/23562 | WO | UTL | SYSTEM AND METHOD FOR PROVIDING PLACE AND PRICE PROTECTION IN A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE | 7/24/2002 -  |           |
| 2001/9564 | -                  | 2001/9564  | ZA | UTL | SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE               | 5/26/2000    | 4/30/2003 |
| 7251665   | -                  | 09/848,982 | US | UTL | DETERMINING A KNOWN CHARACTER STRING EQUIVALENT TO A QUERY STRING  | 5/3/2001     | 7/31/2007 |
| 7162482   | -                  | 10/167,807 | US | UTL | Information Retrieval Engine   | 6/11/2002    | 1/9/2007  |
| 7546316   | 2007-0244890 A1    | 11/818,297 | US | UTL | Determining A Known Character String Equivalent To A Query String  | 6/14/2007    | 6/9/2009  |
| 7720852   | 2006-0242193 A1    | 11/472,792 | US | UTL | Information Retrieval Engine   | 6/22/2006    | 5/18/2010 |
| 8352331   | US 2002-0082901 A1 | 09/846,823 | US | UTL | Relationship Discovery Engine  | 4/30/2001    | 1/8/2013  |
| 8005724   | US 2003-0229537 A1 | 10/401,940 | US | UTL | Relationship Discovery Engine  | 3/26/2003    | 8/23/2011 |
| -         | 2013-0317937 A1    | 13/707,449 | US | UTL | Relationship Discovery Engine  | 12/6/2012 -  |           |
| -         | -                  | US01/14072 | WO | UTL | ASSOCIATING AND LINKING COMPACT DISC METADATA  | 5/1/2001 -   |           |
| 7707221   | -                  | 10/406,799 | US | UTL | Associating And Linking Compact Disc Metadata  | 4/2/2003     | 4/27/2010 |
| 7984062   | US-2009-0307201-A1 | 12/480,228 | US | UTL | Generating Sequences of Program Items  | 6/8/2009     | 7/19/2011 |
| -         | -                  | 10/730,810 | US | UTL | Generating Sequences of Program Items  | 12/8/2003 -  |           |
| -         | -                  | 14/527,104 | US | UTL | Content-Related Wallpaper  | 10/29/2014 - |           |
| 8271333   | -                  | 10/004,278 | US | UTL | Content-Related Wallpaper  | 10/30/2001   | 9/18/2012 |
| 2466482   | -                  | 2466482    | CA | UTL | File Splitting, Scalable Coding, And Asynchronous Transmission In Streamed Data Transfer   | 11/9/2002    | 8/7/2012  |
| -         | 2002803194         | 2803195    | EP | UTL | FILE SPLITTING, SCALABLE CODING, AND ASYNCHRONOUS TRANSMISSION IN STREAMED DATA TRANSFER   | 11/9/2002 -  |           |
| -         | -                  | 60/337,939 | US | PRV | File splitting, scalable coding, and asynchronous transmission in streamed data transfer   | 11/9/2001 -  |           |
| 7024485   | 2003-0177247 A1    | 10/291,210 | US | UTL | SYSTEM FOR CONTROLLING AND ENFORCING PLAYBACK RESTRICTIONS FOR A MEDIA   | 11/8/2002    | 4/4/2006  |
| 7315899   | 2005-0187968 A1    | 11/117,620 | US | UTL | ENFORCING PLAYBACK RESTRICTIONS FOR A MEDIA FILE BY SPLITTING THE MEDIA FILE INTO USABLE AND UNUSABLE PORTIONS FOR PLAYBACK      | 4/28/2005    | 1/1/2008  |

SCHEDULE OF ASSETS

|         |                    |                  |    |     |  |             |            |
|---------|--------------------|------------------|----|-----|--|-------------|------------|
| 7975065 | 2008-0052319 A1    | 11/932,648       | US | UTL | File Splitting, Scalable Coding, and Asynchronous Transmission in Streamed Data Transfer | 10/31/2007  | 7/5/2011   |
| -       | WO200342783        | PCT/US02/35903   | WO | UTL | FILE SPLITTING, SCALABLE CODING, AND ASYNCHRONOUS TRANSMISSION IN STREAMED DATA TRANSFER | 11/9/2002 - |            |
| 7418390 | -                  | 09/717,822       | US | UTL | Multi-language System for Online Communications  | 11/20/2000  | 8/26/2008  |
| 7870001 | 2008-0270113 A1    | 12/139,612       | US | UTL | Multi-language System for Online Communications  | 6/16/2008   | 1/11/2011  |
| 7225184 | US 2005-0015366 A1 | 10/623,115       | US | UTL | Disambiguation of search phrases using interpretation clusters                           | 7/18/2003   | 5/29/2007  |
| 7734565 | US 2004-0141354 A1 | 10/353,785       | US | UTL | QUERY STRING MATCHING METHOD AND APPARATUS   | 1/28/2003   | 6/8/2010   |
| 8001113 | US-2010-0205173-A1 | 12/765,570       | US | UTL | Query String Matching Method and Apparatus   | 4/22/2010   | 8/16/2011  |
| 7398461 | -                  | 10/057,331       | US | UTL | METHOD FOR RANKING WEB PAGE SEARCH RESULTS   | 1/24/2002   | 7/8/2008   |
| 6654813 | -                  | 09/374,175       | US | UTL | Dynamically categorizing entity information  | 8/13/1999   | 11/25/2003 |
| 7398266 | 2004-0267727 A1    | 10/693,667       | US | UTL | Dynamically categorizing entity information  | 10/24/2003  | 7/8/2008   |
| 6665837 | -                  | 09/131,473       | US | UTL | Method for identifying related pages in a hyperlinked database                           | 8/10/1998   | 12/16/2003 |
| 7630973 | 2004-0193836 A1    | 10/702,116       | US | UTL | Method for identifying related pages in a hyperlinked database                           | 11/3/2003   | 12/8/2009  |
| 6701317 | -                  | 09/664,617       | US | UTL | Web page connectivity server construction  | 9/19/2000   | 3/2/2004   |
| 7260583 | US-2005-0033745-A1 | 10/737,729       | US | UTL | Web Page Connectivity Server Construction  | 12/16/2003  | 8/21/2007  |
| 7788158 | US-2005-0171878-A1 | 10/770,590       | US | UTL | Dynamic Pari-Mutuel Market   | 2/3/2004    | 8/31/2010  |
| -       | WO 2005/074557 A2  | PCT/US2005/02774 | WO | UTL | Dynamic Pari-Mutuel Market   | 1/31/2005 - |            |
| 6778975 | -                  | 09/799,863       | US | UTL | Search engine for selecting targeted messages  | 3/5/2001    | 8/17/2004  |
| 6513032 | -                  | 09/429,770       | US | UTL | Search and Navigation System and Method Using Category Intersection Pre-Computation      | 10/28/1999  | 1/28/2003  |
| -       | -                  | 60/647,859       | US | PRV | Systems and Methods for Providing Online Protection                                      | 1/27/2005 - |            |
| 7599966 | US-2006-0167852-A1 | 11/046,501       | US | UTL | System and Method for Improving Online Search Engine Results                             | 1/28/2005   | 10/6/2009  |
| 7747648 | -                  | 11/058,477       | US | UTL | World Modeling Using a Relationship Network  | 2/14/2005   | 6/29/2010  |
| 7702698 | -                  | 11/070,724       | US | UTL | With Communication Channels to Entities  | 3/1/2005    | 4/20/2010  |
| 7630708 | US-2006-0205397-A1 | 11/077,921       | US | UTL | Database Replication Across Different Database Platforms                                 | 3/11/2005   | 12/8/2009  |
| 7536389 | 20080235567        | 11/064,278       | US | UTL | Tester for Determining the Validity of a Feature in a Remote Device                      | 2/22/2005   | 5/19/2009  |
| 8024384 | 2009-0198662 A1    | 12/422,571       | US | UTL | TECHNIQUES FOR CRAWLING DYNAMIC WEB CONTENT  | 4/13/2009   | 9/20/2011  |

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|            |                    |                  |    |     |   |            |            |
|------------|--------------------|------------------|----|-----|---|------------|------------|
| 7668808    | US-2006-0206474-A1 | 11/077,968       | US | UTL | System for Modifying Queries Before Presentation to a Sponsored Search Generator or Other Matching System where Modifications Improve Coverage Without a Corresponding Reduction in Relevance | 3/10/2005  | 2/23/2010  |
| 7792870    | US-2007-0112777-A1 | 11/270,889       | US | UTL | Identification and Automatic Propagation of Geo-location Associations to Un-located Documents   | 11/8/2005  | 9/7/2010   |
| 8412698    | -                  | 11/102,185       | US | UTL | Customizable Filters for Personalized Search  | 4/7/2005   | 4/2/2013   |
| 7908249    | -                  | 11/105,873       | US | UTL | Closed-Loop Feedback Control System for Online Services   | 4/13/2005  | 3/15/2011  |
| 7577651    | US-2006-0248073-A1 | 11/117,658       | US | UTL | Temporal Search Results   | 4/28/2005  | 8/18/2009  |
| -          | -                  | 60/662,307       | US | PRV | Blasing Web Search Results for Topic Familiarity  | 3/16/2005  | -          |
| 8095487    | US-2006-0212423-A1 | 11/378,871       | US | UTL | System and Method for Blasing Search Results Based on Topic Familiarity   | 3/16/2006  | 1/10/2012  |
| 7821953    | US-2006-0256810    | 11/129,666       | US | UTL | Dynamically Selecting Codecs for Managing an Audio Message  | 5/13/2005  | 10/26/2010 |
| 7751316    | US-2006-0256721-A1 | 11/128,897       | US | UTL | Relay Server for SIP/RTP Messages with Buffer Management  | 5/13/2005  | 7/6/2010   |
| 8107495    | US-2006-0256818    | 11/129,668       | US | UTL | Integrating Access to Audio Messages and Instant Messaging with VOIP  | 5/13/2005  | 1/31/2012  |
| 7313133    | US-2006-0268828-A1 | 11/128,519       | US | UTL | Selecting a Network Based on Metrics for Real Time Communication  | 5/12/2005  | 12/25/2007 |
| 7313134    | US-2006-0256771    | 11/128,634       | US | UTL | Proxy Server for Relaying VOIP Messages   | 5/12/2005  | 12/25/2007 |
| 2374699    | 2374699            | 215574           | GB | UTL | Content collection  | 12/12/2000 | 7/14/2004  |
| GB2362974  | -                  | 119648           | GB | UTL | Web Server Content Replication  | 1/25/2000  | 12/17/2003 |
| 2363494    | -                  | 119649           | GB | UTL | Web Server Content Replication  | 1/25/2000  | 10/15/2003 |
| 10-0729288 | -                  | 10-2001-7009535  | KR | UTL | Web Server Content Replication  | 1/25/2000  | 6/11/2007  |
| 10-0729287 | -                  | 10-2001-7009528  | KR | UTL | Web Server Content Replication  | 1/25/2000  | 6/11/2007  |
| -          | -                  | 60/117,674       | US | PRV | Content Collection  | 1/28/1999  | -          |
| 7356589    | -                  | 11/197,756       | US | UTL | Content Collection  | 8/4/2005   | 4/8/2008   |
| 7581006    | 20060031188        | 09/086,821       | US | UTL | web service   | 5/29/1998  | 8/25/2009  |
| 7035943    | US 2003-0041093 A1 | 09/376,017       | US | UTL | Web Server Content Replication  | 8/19/1999  | 4/25/2006  |
| 6976093    | US 2003-0041094 A1 | 09/377,611       | US | UTL | Web Server Content Replication  | 8/19/1999  | 12/13/2005 |
| 8108347    | US-2006-0031188-A1 | 11/198,923       | US | UTL | Web Server Content Replication  | 8/5/2005   | 1/31/2012  |
| 7143193    | -                  | 09/532,483       | US | UTL | Content Collection  | 12/13/1999 | 11/28/2006 |
| -          | -                  | PCT/US2000/01837 | WO | UTL | Web Server Content Replication  | 1/25/2000  | -          |
| -          | WO0142990A2        | PCT/US2000/42745 | WO | UTL | Content Collection  | 12/12/2000 | -          |
| -          | -                  | PCT/US00/01897   | WO | UTL | Web Server Content Replication  | 1/25/2000  | -          |
| -          | -                  | 60/681,085       | US | PRV | ENABLING RENT/BUY REDIRECTION IN AN INVITATION TO AN ONLINE SERVICE   | 5/13/2005  | -          |
| 7587502    | US-2006-0258460    | 11/383,180       | US | UTL | ENABLING RENT/BUY REDIRECTION IN INVITATION TO AN ONLINE SERVICE  | 5/12/2006  | 9/8/2009   |
| 8108515    | 2009-0019154       | 12/234,532       | US | UTL | Enabling Rent/Buy Redirection In Invitation To An Online Service  | 9/19/2008  | 1/31/2012  |

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|         |                    |              |    |     |  |             |           |
|---------|--------------------|--------------|----|-----|--|-------------|-----------|
| 7778407 | US-2006-0256776    | 11/131,459   | US | UTL | STATISTICAL APPROACH TO AUTOMATIC GAIN CONTROL FOR MANAGING AUDIO MESSAGES OVER A NETWORK  | 5/16/2005   | 8/17/2010 |
| 7685197 | US-2006-0253437-A1 | 11/122,780   | US | UTL | System and Methods for Identifying the Potential Advertising Value of Terms Found on Web Pages SYSTEM, METHOD AND FRAMEWORK FOR UNIVERSAL ACCESS TO CONTENT AND SERVICES | 5/5/2005    | 3/23/2010 |
| -       | -                  | 60/680,545   | US | PRV | System and Method for the Propagation of DRM Protected Content   | 5/11/2005 - | -         |
| 7770229 | US-2006-0259982-A1 | 11/322,661   | US | UTL | System And Method For Navigating And Indexing Content  | 12/30/2005  | 8/3/2010  |
| 7680804 | 20070156719        | 11/473,727   | US | UTL | DISTRIBUTED COMPUTATION FRAMEWORK THE PIPELET APPLICATION PROGRAMMING INTERFACE  | 6/22/2006   | 3/16/2010 |
| -       | -                  | 60/671,642   | US | PRV | DISTRIBUTED COMPUTATION FRAMEWORK THE PIPELET APPLICATION PROGRAMMING INTERFACE  | 4/15/2005 - | -         |
| -       | -                  | 60/671,569   | US | PRV | System and Method for Pipelet Processing of Data Sets  | 4/15/2005 - | -         |
| 8151282 | US-2007-0011437-A1 | 11/406,069   | US | UTL | EFFICIENT METHOD FOR BUILDING SUPPORT VECTOR MACHINES WITH REDUCED CLASSIFIER COMPLEXITY   | 4/17/2006   | 4/3/2012  |
| -       | -                  | 60/680,348   | US | PRV | EFFICIENT METHOD FOR BUILDING SUPPORT VECTOR MACHINES WITH REDUCED CLASSIFIER COMPLEXITY   | 5/12/2005 - | -         |
| 7630945 | US-2007-0011110-A1 | 11/432,764   | US | UTL | CLASSIFIER COMPLEXITY SYSTEMS AND METHODS FOR DETERMINING A RELEVANCE RANK FOR A POINT OF INTEREST   | 5/10/2006   | 12/8/2009 |
| 7826965 | US-20060287810-A1  | 11/155,158   | US | UTL | USER INTERFACE FOR NAVIGATING A KEYWORD SPACE  | 6/16/2005   | 11/2/2010 |
| -       | -                  | 60/685,111   | US | PRV | USER INTERFACE FOR NAVIGATING A KEYWORD SPACE  | 5/27/2005 - | -         |
| 7797287 | US-2007-0011161-A1 | 11/444,141   | US | UTL | User interface for navigating a keyword space  | 5/30/2006   | 9/14/2010 |
| 8055634 | 2010-0318513       | 12/861,382   | US | UTL | User interface for navigating a keyword space  | 8/23/2010   | 11/8/2011 |
| 8359295 | 2012-0041961       | 13/282,559   | US | UTL | SYSTEMS AND METHODS FOR CREATING AND EDITING A TRAVEL GUIDE  | 10/27/2011  | 1/22/2013 |
| -       | -                  | 60/685,252   | US | PRV | Interactive Map-Based Travel Guide   | 5/27/2005 - | 9/2/2014  |
| 8825370 | US-2006-0271277-A1 | 11/263,623   | US | UTL | Access control systems and methods using visibility tokens with automatic propagation  | 10/28/2005  | 9/2/2014  |
| 7594258 | US 2006-0294192 A1 | 11/169,178   | US | UTL | RECORD BOUNDARY IDENTIFICATION AND EXTRACTION THROUGH PATTERN MINING   | 6/27/2005   | 9/22/2009 |
| -       | 52/2006            | 471/KOL/2005 | IN | UTL | RECORD BOUNDARY IDENTIFICATION AND EXTRACTION THROUGH PATTERN MINING   | 6/3/2005 -  | -         |
| -       | -                  | -            | IN | UTL | EXTRACTION THROUGH PATTERN MINING  | -           | -         |

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|         |                    |            |    |     |   |            |            |
|---------|--------------------|------------|----|-----|---|------------|------------|
| 7606816 | US-2007-0027882-A1 | 11/192,620 | US | UTL | Record Boundary Identification And Extraction Through Pattern Mining  | 7/28/2005  | 10/20/2009 |
| -       | -                  | 60/681,458 | US | PRV | System and Method for Providing Features and User Interface in Network Browsing Application   | 5/17/2005  | -          |
| -       | US-2006-0265518-A1 | 11/261,672 | US | UTL | Systems and Methods for Improving Access to Syndication Feeds in Network Browsing Applications  | 10/31/2005 | -          |
| 7958446 | US-2006-0265652-A1 | 11/261,675 | US | UTL | Systems and Methods for Language Translations in Network Browsing Applications  | 10/31/2005 | 6/7/2011   |
| 7610267 | -                  | 11/203,832 | US | UTL | Unsupervised, Automated Web Host Dynamicity Detection, Dead Link Detection And Prerequisite Page Discovery For Search Indexed Web Pages | 8/13/2005  | 10/27/2009 |
| 8364658 | US-2009-0077072-A1 | 12/272,545 | US | UTL | User Entertainment And Engagement Enhancements To Search System   | 11/17/2008 | 1/29/2013  |
| -       | -                  | 60/693,735 | US | PRV | DYNAMIC BLOOM FILTER FOR CACHING QUERY RESULTS  | 6/24/2005  | -          |
| 7548908 | US-2006-0294311-A1 | 11/475,427 | US | UTL | Dynamic Bloom Filter For Caching Query Results  | 6/26/2006  | 6/16/2009  |
| 7631045 | US 2007-0028293 A1 | 11/182,313 | US | UTL | CONTENT ROUTER ASYNCHRONOUS EXCHANGE SYSTEM AND METHOD FOR SERVICING A USER DEVICE  | 7/14/2005  | 12/8/2009  |
| 7788352 | US-2007-0016676-A1 | 11/182,348 | US | UTL | CONTENT ROUTER NOTIFICATION   | 7/14/2005  | 8/31/2010  |
| 7623515 | US-2007-0014300-A1 | 11/182,288 | US | UTL | An Alert Mechanism for Notifying Multiple User Devices Sharing A Connected- Data-Set  | 7/14/2005  | 11/24/2009 |
| 8112549 | US-2007-0014244-A1 | 11/183,137 | US | UTL | Universal Calendar Event Handling   | 7/14/2005  | 2/7/2012   |
| 8417782 | US-2007-0016646-A1 | 11/182,664 | US | UTL | SEARCH ENGINE WITH AUGMENTED RELEVANCE RANKING BY COMMUNITY PARTICIPATION   | 7/14/2005  | 4/9/2013   |
| -       | -                  | 60/695,239 | US | PRV | SEARCH ENGINE WITH AUGMENTED RELEVANCE RANKING BY COMMUNITY PARTICIPATION   | 6/28/2005  | -          |
| 8086605 | US-2007-0112761-A1 | 11/478,291 | US | UTL | Trust Propagation Through Both Explicit and Implicit Social Networks  | 6/28/2006  | 12/27/2011 |
| 8442978 | US-2006-0294134-A1 | 11/498,637 | US | UTL | Realtime Indexing and Search in Large, Rapidly Changing Document Collections  | 8/2/2006   | 5/14/2013  |
| 7634466 | US-2006-0294086-A1 | 11/498,706 | US | UTL | Using Community Annotations as Anchor text  | 8/2/2006   | 12/15/2009 |
| 7647306 | 20080168117        | 11/498,682 | US | UTL | Search engine with augmented relevance ranking by community participation   | 8/2/2006   | 1/12/2010  |
| 8521734 | 2012-0233161 A1    | 13/193,077 | US | UTL | Trust Propagation Through Both Explicit and Implicit Social Networks  | 7/28/2011  | 8/27/2013  |
| -       | 2013-0226918 A1    | 13/859,208 | US | UTL | Smart Abstracts in Web Search   | 4/9/2013   | -          |
| -       | -                  | 60/411,533 | US | PRV |   | 9/17/2002  | -          |

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|         |                    |  |                   |    |     |  |              |            |
|---------|--------------------|--|-------------------|----|-----|--|--------------|------------|
| 7406458 | -                  |  | 10/365,273        | US | UTL | Generating Descriptions Of Matching Resources Based On The Kind, Quality, And Relevance Of Available Sources Of Information About The Matching Resources | 2/11/2003    | 7/29/2008  |
| 8745044 | US-2008-0270394A1  |  | 12/172,165        | US | UTL | Generating Descriptions Of Matching Resources Based On The Kind, Quality And Relevance Of Available Sources Of Information About The Matching Resource   | 7/11/2008    | 6/3/2014   |
| -       | 2014-0280229 A1    |  | 14/294,515        | US | UTL | Generating Descriptions Of Matching Resources Based On The Kind, Quality, And Relevance Of Available Sources Of Information About The Matching Resources | 6/3/2014 -   |            |
| -       | -                  |  | 15/040,779        | US | UTL | Generating Descriptions Of Matching Resources Based On The Kind, Quality, And Relevance Of Available Sources Of Information About The Matching Resources | 2/10/2016 -  |            |
| 1364675 | -                  |  | 93111782          | TW | UTL | Improved graphical user interface for search and system and method for providing the same  | 4/27/2004    | 5/21/2012  |
| -       | -                  |  | 60/466,999        | US | PRV | A system and method for providing an improved graphical user interface for web search  | 4/30/2003 -  |            |
| 7337185 | US 2005-0050024 A1 |  | 10/783,862        | US | UTL | system and method for providing an improved graphical user interface for search  | 2/20/2004    | 2/26/2008  |
| 7908289 | 2008-0010607 A1    |  | 11/859,357        | US | UTL | A System And Method For Providing An Improved Graphical User Interface For Search  | 9/21/2007    | 3/15/2011  |
| 6873996 | 2004-0210600 A1    |  | 10/417,709        | US | UTL | Affinity Analysis Method and Article of Manufacture  | 4/16/2003    | 3/29/2005  |
| -       | WO 2004/095178     |  | PCT/US2004/011772 | WO | UTL | Affinity Analysis Method and Article of Manufacture  | 4/16/2004 -  |            |
| 6359633 | -                  |  | 09/232,117        | US | UTL | Apparatus and method for abstracting markup language documents   | 1/15/1999    | 3/19/2002  |
| 8668554 | -                  |  | 10/788,537        | US | UTL | Associating Product Offerings with Product Abstractions  | 2/26/2004    | 10/21/2014 |
| 7672877 | -                  |  | 10/789,837        | US | UTL | Product Data Classification  | 2/26/2004    | 3/2/2010   |
| 7359898 | -                  |  | 10/789,839        | US | UTL | Scoring Mechanism Selection Among Multiple Dimensions  | 2/26/2004    | 4/15/2008  |
| 7461022 | 20050267834        |  | 09/422,114        | US | UTL | AUCTION REDEMPTION SYSTEM AND METHOD   | 10/20/1999   | 12/2/2008  |
| -       | -                  |  | PCT/US00/28816    | WO | UTL | AUCTION REDEMPTION SYSTEM AND METHOD   | 10/17/2000 - |            |
| 7177931 | 2003-0208598 A1    |  | 09/872,635        | US | UTL | Centralized feed manager   | 5/31/2001    | 2/13/2007  |
| 7792926 | 2007-0055779 A1    |  | 11/593,365        | US | UTL | Centralized feed manager   | 11/6/2006    | 9/7/2010   |
| 8135805 | 2011-0153774       |  | 12/874,054        | US | UTL | Centralized feed manager   | 9/1/2010     | 3/13/2012  |
| 8392536 | 2012-0166573       |  | 13/415,413        | US | UTL | Centralized feed manager   | 3/8/2012     | 3/5/2013   |
| 6128627 | -                  |  | 09/060,974        | US | UTL | Consistent Data Storage In An Object Cache   | 4/15/1998    | 10/3/2000  |
| 6289358 | -                  |  | 09/060,887        | US | UTL | Delivering Alternate Versions Of Objects From An Object Cache  | 4/15/1998    | 9/11/2001  |

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|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 7359893    | US-2005-0222966-A1 | 10/816,460      | US | UTL | Delivering Items Based on Links to Resources Associated with Search Results | 3/31/2004  | 4/15/2008  |
| 6564208    | -                  | 09/513,238      | US | UTL | Delivering Non-Default Items in Association with Search Results             | 2/24/2000  | 5/13/2003  |
| 6711567    | US 2003-0120646 A1 | 10/365,838      | US | UTL | Delivering Non-Default Items in Association with Search Results             | 2/12/2003  | 3/23/2004  |
| 7533414    | -                  | 10/803,473      | US | UTL | Detecting System Abuse  | 3/17/2004  | 5/12/2009  |
| 738648     | -                  | 69915,98        | AU | UTL | Dynamic Page Generator  | 6/4/1998   | 1/3/2002   |
| 69831904   | -                  | 98304652        | DE | UTL | Dynamic Page Generator  | 6/12/1998  | 10/19/2005 |
| 889421     | EP0889421          | 98304652        | EP | UTL | Dynamic Page Generator  | 6/12/1998  | 10/19/2005 |
| 889421     | -                  | 98304652        | FR | UTL | Dynamic Page Generator  | 6/12/1998  | 10/19/2005 |
| 889421     | -                  | 98304652        | FR | UTL | Dynamic Page Generator  | 6/12/1998  | 10/19/2005 |
| 330448     | -                  | 98304652        | GB | UTL | Dynamic Page Generator  | 6/12/1998  | 10/19/2005 |
| 5983227    | -                  | 330448          | NZ | UTL | Dynamic Page Generator  | 5/18/1998  | 5/12/2000  |
| 7171414    | -                  | 08,873,975      | US | UTL | Dynamic Page Generator  | 6/12/1997  | 11/9/1999  |
| 7565359    | US-2007-0118796A1  | 09/393,718      | US | UTL | Dynamic Page Generator  | 9/10/1999  | 1/30/2007  |
| 8352854    | US-2008-0028295-A1 | 11/656,636      | US | UTL | Dynamic Page Generator  | 1/22/2007  | 7/21/2009  |
| -          | 2008-0046826 A1    | 11/842,095      | US | UTL | Dynamic Page Generator  | 8/20/2007  | 1/8/2013   |
| -          | 2013-1079277-A1    | 11/933,135      | US | UTL | Dynamic Page Generator  | 10/31/2007 | -          |
| -          | WO9857276          | 13/724,453      | US | UTL | Dynamic Page Generator  | 12/21/2012 | -          |
| 60149446   | -                  | PCT/US98/09782  | WO | UTL | Dynamic Page Generator  | 5/12/1998  | -          |
| 1340152    | -                  | 1992942         | DE | UTL | Cooperative Management Of Distributed Network Caches                        | 10/31/2001 | 7/8/2015   |
| -          | 1340152            | 1992942         | EP | UTL | Cooperative Management Of Distributed Network Caches                        | 10/31/2001 | 7/8/2015   |
| 7117262    | US 2002-0107944 A1 | 60/245,007      | US | PRV | Methods for Aggregated Management of Distributed Network Cache              | 11/1/2000  | -          |
| 7203754    | US-2005-0193131-A1 | 10/017,997      | US | UTL | Cooperative Management of Distributed Network Caches                        | 10/30/2001 | 10/3/2006  |
| -          | WO/2002/037296     | 11/071,415      | US | UTL | Cooperative Management of Distributed Network Caches                        | 3/2/2005   | 4/10/2007  |
| 7136935    | 20030007488        | PCT/US01/45425  | WO | UTL | Aggregated Management of Distributed Network Caches                         | 10/31/2001 | -          |
| 6209003    | -                  | 09/887,810      | US | UTL | Efficient Data Transmission Based On A Policy                               | 5/17/2002  | 11/14/2006 |
| 60235666   | -                  | 09/061,136      | US | UTL | Garbage Collection In An Object Cache                                       | 7/17/1998  | 3/27/2001  |
| 1227638    | EP1227638          | 2250510         | DE | UTL | High Performance Client-Server Communication System                         | 1/25/2002  | 3/17/2010  |
| 1227638    | -                  | 2250510         | EP | UTL | High Performance Client-Server Communication System                         | 1/25/2002  | 3/17/2010  |
| 1227638    | -                  | 2250510         | FR | UTL | High Performance Client-Server Communication System                         | 1/25/2002  | 3/17/2010  |
| 1227638    | -                  | 2250510         | GB | UTL | High Performance Client-Server Communication System                         | 1/25/2002  | 3/17/2010  |
| 10-0856515 | -                  | 10-2002-0004145 | KR | UTL | High Performance Client-Server Communication System                         | 1/24/2002  | 8/28/2008  |
| 7325030    | US-2002-0099768-A1 | 09/770,762      | US | UTL | High Performance Client-Server Communication System                         | 1/25/2001  | 1/29/2008  |

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|                       |                    |                           |    |     |  |           |            |
|-----------------------|--------------------|---------------------------|----|-----|--|-----------|------------|
| 7103671               | US 2003-0177233 A1 | 10/100,517                | US | UTL | PROXY CLIENT-SERVER COMMUNICATION SYSTEM<br>Automatically Generating A Search Result In A Separate Window For A Displayed Symbol That Is Selected With A Drag And Drop Control | 3/14/2002 | 9/5/2006   |
| 7827503<br>BR9911315A | US-2007-0028284-A1 | 11/190,685<br>PI9911315-5 | US | UTL | Intelligent Text-to-Speech Synthesis   | 7/27/2005 | 11/2/2010  |
| 699332820             | -                  | 1086450                   | BR | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 12/25/2012 |
| 1086450               | -                  | 99930238                  | DE | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 8/16/2006  |
| 1086450               | -                  | 99930238                  | EP | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 8/16/2006  |
| 1086450               | -                  | 99930238                  | FR | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 8/16/2006  |
| 10-759581             | -                  | 10-2000-7014411           | GB | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 8/16/2006  |
| 6446040               | -                  | 09/098,669                | KR | UTL | Intelligent text-to-speech synthesis   | 6/17/1998 | 9/11/2007  |
| -                     | WO 1999/066496     | PCT/US99/13329            | US | UTL | Intelligent text-to-speech synthesis   | 6/14/1999 | 9/3/2002   |
| 6556563               | -                  | 09/658,781                | WO | UTL | Intelligent Voice Bridging   | 9/11/2000 | 4/29/2003  |
| 6567419               | -                  | 09/658,802                | US | UTL | Intelligent Voice Converter  | 9/11/2000 | 5/20/2003  |
| 7327696               | -                  | 10/402,637                | US | UTL | Intelligent Voice Converter  | 3/27/2003 | 2/5/2008   |
| 8676830               | US20050198068-A1   | 10/794,006                | US | UTL | Keyword Recommendation for Internet Search Engines   | 3/4/2004  | 3/18/2014  |
| 7840646               | US-2005-008080872  | 10/682,636                | US | UTL | Learned Upload Time Estimate Module  | 10/8/2003 | 11/23/2010 |
| 6675161               | -                  | 09/305,684                | US | UTL | Managing Changes to a Directory of Electronic Documents  | 5/4/1999  | 1/6/2004   |
| 6941302               | -                  | 10/641,433                | US | UTL | Managing Changes to a Directory of Electronic Documents  | 8/14/2003 | 9/6/2005   |
| 6580786               | -                  | 09/659,233                | US | UTL | Message Store Architecture   | 9/11/2000 | 6/17/2003  |
| 7228317               | -                  | 10/174,735                | US | UTL | Method and Apparatus for Accelerating and Improving Access to Network Files  | 6/18/2002 | 6/5/2007   |
| 60236427              | -                  | 2736934                   | DE | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 5/15/2002 | 5/19/2010  |
| 1388096               | WO 2002/093431     | 2736934                   | EP | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 5/15/2002 | 5/19/2010  |
| 1388096               | -                  | 2736934                   | GB | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 5/15/2002 | 5/19/2010  |
| 10-0837985            | -                  | 10-2003-7014909           | KR | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 5/15/2002 | 6/5/2008   |
| 6728731               | -                  | 09/858,853                | US | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 5/15/2001 | 4/27/2004  |
| 7206745               | 20040225685        | 10/796,829                | US | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices  | 3/8/2004  | 4/17/2007  |

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|----------|--------------------|----------------|----|-----|---|--------------|------------|
| -        | -                  | PCT/US02/15633 | WO | UTL | Method and Apparatus for Accessing Targeted, Personalized Voice/ Audio Web Content Through Wireless Devices | 5/15/2002 -  |            |
| 7673062  | -                  | 10/715,694     | US | UTL | Method and Apparatus for Assisting with Playback of Remotely Stored Media Files                             | 11/18/2003   | 3/2/2010   |
| 7590711  | US-2007-0192445-A1 | 11/787,581     | US | UTL | Method and Apparatus for Assisting with Playback of Remotely Stored Media Files                             | 4/17/2007    | 9/15/2009  |
| 8775659  | 2010-0185729 A1    | 12/701,089     | US | UTL | Method And Apparatus For Assisting With Playback Of Remotely Stored Media Files                             | 2/5/2010     | 7/8/2014   |
| -        | 2014-0297808 A1    | 14/170,379     | US | UTL | Method And Apparatus For Assisting With Playback Of Remotely Stored Media Files                             | 1/31/2014 -  |            |
| 6442606  | -                  | 09/374,315     | US | UTL | Method and Apparatus For Identifying Spoof Documents  | 8/12/1999    | 8/27/2002  |
| 6990628  | -                  | 09/333,121     | US | UTL | Method and Apparatus for Measuring Similarity Among Electronic Documents                                    | 6/14/1999    | 1/24/2006  |
| -        | -                  | 60/685,660     | US | PRV | A matching pursuit approach to sparse gaussian process regression   | 5/26/2005 -  |            |
| 7496549  | US-2006-0271532-A1 | 11/282,306     | US | UTL | A matching pursuit approach to sparse gaussian process regression   | 11/18/2005   | 2/24/2009  |
| 6360215  | -                  | 09/186,058     | US | UTL | Method and Apparatus for Retrieving Documents Based on Information Other Than Document Content              | 11/3/1998    | 3/19/2002  |
| 1331719  | 200422878          | 92121381       | TW | UTL | Method and Apparatus for Search Ranking Using Human Input and Automated Ranking                             | 8/5/2003     | 10/11/2010 |
| 7599911  | US 20040024752 A1  | 10/213,353     | US | UTL | Method and Apparatus for Search Ranking Using Human Input and Automated Ranking                             | 8/5/2002     | 10/6/2009  |
| 69833565 | -                  | 98960236       | DE | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/16/1998   | 2/22/2006  |
| 1029294  | -                  | 98960236       | EP | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/16/1998   | 2/22/2006  |
| 1029294  | -                  | 98960236       | ES | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/16/1998   | 2/22/2006  |
| 212026   | -                  | 4686           | MX | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/16/1998   | 12/11/2002 |
| 6108696  | -                  | 08/970,735     | US | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/14/1997   | 8/22/2000  |
| 6216157  | -                  | 09/098,670     | US | UTL | Method and Apparatus for a Client-Server System with Heterogenous Clients                                   | 6/17/1998    | 4/10/2001  |
| -        | 1999/26169         | PCT/US98/24480 | WO | UTL | Method and Apparatus to connect a General Purpose Computer to a Special Purpose System                      | 11/16/1998 - |            |
| -        | 1999/66673         | PCT/US99/12955 | WO | UTL | Method and Apparatus for a Client-Server System with Heterogenous Clients                                   | 6/11/1999 -  |            |
| -        | 2000/67149         | PCT/US00/11780 | WO | UTL | Method and Apparatus for Reformatting Web Pages   | 5/1/2000 -   |            |

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|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 7051119    | US 2003-0014479 A1 | 09/904,300        | US | UTL | METHOD AND SYSTEM FOR ENABLING A SCRIPT ON A FIRST COMPUTER TO COMMUNICATE AND EXCHANGE DATA WITH A SCRIPT ON A SECOND COMPUTER OVER A NETWORK | 7/12/2001  | 5/23/2006  |
| 7650378    | US-2006-011707-A1  | 11/337,128        | US | UTL | Method And System For Enabling A Script On A First Computer To Communicate And Exchange Data With A Script On A Second Computer Over A Network | 1/19/2006  | 1/19/2010  |
| 7016307    | US20050201230 A1   | 10/797,966        | US | UTL | Method And System For Finding A Friend In A Social Network   | 3/11/2004  | 3/21/2006  |
| 6314463    | -                  | 09/087,263        | US | UTL | Method and System for Measuring Queue Length and Delay   | 5/29/1998  | 11/6/2001  |
| -          | -                  | 60/494,691        | US | PRV | Method and system of providing customizable buttons  | 8/12/2003  | -          |
| 7793227    | 2005-0039144-A1    | 10/794,435        | US | UTL | Method and System for Providing Customizable Buttons   | 3/5/2004   | 9/7/2010   |
| 7890961    | US 2005-0050547 A1 | 10/652,607        | US | UTL | Method and Apparatus for Providing Desktop Application Functionality in a Client/Server Architecture   | 8/29/2003  | 2/15/2011  |
| 10-0865443 | -                  | 10-2007-7009601   | KR | UTL | Method for Providing a Clip for Viewing at a Remote Device   | 11/17/2004 | 10/20/2008 |
| 8112548    | US-2006-0085731-A1 | 10/951,982        | US | UTL | Method for Providing a Clip for Viewing at a Remote Device   | 9/28/2004  | 2/7/2012   |
| -          | WO 2006/036166     | PCT/US2004/038699 | WO | UTL | Method for Providing a Clip for Viewing at a Remote Device   | 11/17/2004 | -          |
| 7584267    | 2007/0043832       | 11/209,399        | US | UTL | Scalable Specification of Page Flows   | 8/22/2005  | 9/1/2009   |
| 6993590    | -                  | 09/484,581        | US | UTL | Method of Creating Data Streams For User-Specific Usage Data Gathering Systems   | 1/13/2000  | 1/31/2006  |
| 6151624    | -                  | 09/017,817        | US | UTL | Navigating Network Resources Based on Metadata   | 2/3/1998   | 11/21/2000 |
| 7424617    | 20040193489        | 10/751,038        | US | UTL | Offline-Online Incentive Points System and Method  | 12/31/2003 | 9/9/2008   |
| 7895077    | US-2005-0203796-A1 | 10/799,048        | US | UTL | Predicting Inventory Availability And Prioritizing The Serving Of Competing Advertisements Based On Contract Value                             | 3/11/2004  | 2/22/2011  |
| 10-953817  | -                  | 10-2004-7011385   | KR | UTL | PROVIDING INSTANT MESSAGING FUNCTIONALITY IN NON-INSTANT MESSAGING ENVIRONMENTS  | 1/16/2003  | 4/12/2010  |
| 7359943    | 20030140103 A1     | 10/057,735        | US | UTL | Providing instant messaging functionality in non-instant messaging environments  | 1/22/2002  | 4/15/2008  |
| -          | WO 03/063,524      | PCT/US03/01572    | WO | UTL | PROVIDING INSTANT MESSAGING FUNCTIONALITY IN NON-INSTANT MESSAGING ENVIRONMENTS  | 1/16/2003  | -          |
| 7257546    | US 2003-0046159 A1 | 09/946,772        | US | UTL | Safe Advertising Campaign Aggregation System   | 9/4/2001   | 8/14/2007  |

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|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 7343374    | US-2005-0216533-A1 | 10/812,719        | US | UTL | SEARCH USING PERSONALIZED BOOKMARK PROCESSING<br>Selecting Among Advertisement Competing for a Slot Associated With Electronic Content Delivered Over a Network | 3/29/2004  | 3/11/2008  |
| 8380572    | US 2005-0049915 A1 | 10/648,599        | US | UTL | Self-Tuning Dataflow I/O Core   | 8/25/2003  | 2/19/2013  |
| 6308214    | -                  | 09/159,468        | US | UTL | Self-Tuning Data Flow I/O Core  | 9/23/1998  | 10/23/2001 |
| 6848005    | -                  | 09/829,873        | US | UTL | Slideout Windows  | 4/9/2001   | 1/25/2005  |
| 7325204    | 2005/0060664       | 10/651,477        | US | UTL | Spike Filter for Financial Data Represented as Discrete-Valued Time Series  | 8/29/2003  | 1/29/2008  |
| 7685041    | -                  | 10/935,865        | US | UTL | System and Method for Managing Advertising Inventory to Maximize Advertising Revenue  | 9/8/2004   | 3/23/2010  |
| 7546249    | US20020133399A1    | 09/778,666        | US | UTL | System and Method for Managing Advertising Revenue  | 2/6/2001   | 6/9/2009   |
| -          | WO 02/063433       | PCT/US02/03806    | WO | UTL | Inventory to Maximize Advertising Revenue   | 2/6/2002   | -          |
| 10-0826864 | -                  | 10-2004-7013666   | KR | UTL | System and Method for Mobile Electronic Messaging   | 2/26/2003  | 4/25/2008  |
| -          | -                  | 60/361,239        | US | PRV | SYSTEM AND METHOD FOR MOBILE ELECTRONIC MESSAGING   | 3/1/2002   | -          |
| 6813489    | -                  | 10/375,335        | US | UTL | ELECTRONIC MESSAGING SYSTEM AND METHOD FOR MOBILE ELECTRONIC MESSAGING  | 2/26/2003  | 11/2/2004  |
| -          | WO/2003/075123     | PCT/US03/06052    | WO | UTL | SYSTEM AND METHOD FOR PROVIDING A WEBPAGE   | 2/26/2003  | -          |
| 7111229    | US 2005-0022128 A1 | 10/607,452        | US | UTL | System and Method for Providing Automobile Marketing Research Information   | 6/25/2003  | 9/19/2006  |
| 7739142    | US-2005-0256755-A1 | 10/847,838        | US | UTL | System and Method for Search Query Processing Using Trend Analysis  | 5/17/2004  | 6/15/2010  |
| 10-1031449 | 2007-0007031       | 10-2006-7011525   | KR | UTL | System and Method for Search Query Processing Using Trend Analysis  | 11/12/2004 | 4/19/2011  |
| 7240049    | 20050102259        | 10/712,307        | US | UTL | System and Method for Search Query Processing Using Trend Analysis  | 11/12/2003 | 7/3/2007   |
| 7562076    | US-2007-0226198-A1 | 11/755,658        | US | UTL | System and Method for Search Query Processing Using Trend Analysis  | 5/30/2007  | 7/14/2009  |
| -          | WO 2005/050367 A2  | PCT/US2004/037571 | WO | UTL | System and Method for Search Query Processing Using Trend Analysis  | 11/12/2004 | -          |
| -          | -                  | 60/469,496        | US | PRV | System and method of outdoor advertising  | 5/9/2003   | -          |
| -          | -                  | 60/515,322        | US | PRV | Display system and method   | 10/28/2003 | -          |
| -          | -                  | 60/520,210        | US | PRV | Method and System for Serving Advertisements  | 11/14/2003 | -          |
| -          | 2005-0144073 A1    | 10/928,532        | US | UTL | Method and System for Serving Advertisements EMPLOYING PARTIAL EVALUATION TO PROVIDE A PAGE   | 8/26/2004  | -          |
| 8046678    | 2007/0044016       | 11/209,249        | US | UTL | Systems and Methods for Identifying and Extracting Data from HTML Pages   | 8/22/2005  | 10/25/2011 |
| 6920609    | -                  | 09/645,479        | US | UTL | Targeted Advertisements Using Time-Dependent Key Search Terms   | 8/24/2000  | 7/19/2005  |
| 7007074    | US 2003-0050863 A1 | 09/950,567        | US | UTL | Targeted Advertisements Using Time-Dependent Key Search Terms   | 9/10/2001  | 2/28/2006  |

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|            |                    |                |    |     |   |             |            |
|------------|--------------------|----------------|----|-----|---|-------------|------------|
| 7487455    | US2005-0235219     | 10/828,513     | US | UTL | Techniques for Simultaneously Displaying a Background Page and an Interactive Component Page in an Application Program  | 4/19/2004   | 2/3/2009   |
| 7464020    | -                  | 10/671,096     | US | UTL | Visibly Distinguishing Portions of Compound Words   | 9/24/2003   | 12/9/2008  |
| 7747428    | -                  | 10/671,026     | US | UTL | Visibly Distinguishing Portions of Compound Words   | 9/24/2003   | 6/29/2010  |
| 7095733    | -                  | 09/658,771     | US | UTL | Voice Integrated VOIP System  | 9/11/2000   | 8/22/2006  |
| 7760705    | US-2005-0111439-A1 | 10/954,982     | US | UTL | Voice Integrated VOIP System  | 9/29/2004   | 7/20/2010  |
| 7509397    | -                  | 09/544,356     | US | UTL | Web Portholes: Using Web Proxies to Capture and Enhance Display Real Estate   | 4/6/2000    | 3/24/2009  |
| 6912534    | 20020042823        | 09/929,997     | US | UTL | Web Service   | 8/15/2001   | 6/28/2005  |
| 6377984    | -                  | 09/433,004     | US | UTL | A Web Crawler System using parallel Queues for Queuing Data Sets Having Common Address and Concurrently Downloading Data Associated with Data Set in Each Queue | 11/21/1999  | 4/23/2002  |
| 6735585    | -                  | 09/373,324     | US | UTL | METHOD FOR SEARCH ENGINE GENERATING SUPPLEMENTED SEARCH NOT INCLUDED IN CONVENTIONAL SEARCH RESULT  | 8/12/1999   | 5/11/2004  |
| 6073135    | -                  | 09/037,350     | US | UTL | IDENTIFYING ENTITY DATA RELATED TO PORTION OF LOCATED WEB PAGE  | 3/10/1998   | 6/6/2000   |
| 2002233085 | -                  | 2002233085     | AU | UTL | CONNECTIVITY SERVER   | 2/11/2002   | 11/17/2005 |
| 2005229711 | -                  | 2005229711     | AU | UTL | INFORMATION RETRIEVAL SYSTEM AND METHOD EMPLOYING SPATIALLY SELECTIVE FEATURES  | 11/4/2005   | 5/22/2008  |
| 2406946    | -                  | 2406946        | CA | UTL | Information Retrieval System and Method Employing Spatially Selective Features  | 2/11/2002   | 6/16/2009  |
| 10290956   | -                  | 10290956       | DE | UTL | METHOD EMPLOYING SPATIALLY SELECTIVE FEATURES   | 2/11/2002   | 6/11/2011  |
| 7707140    | US 2004-0073538 A1 | 10/267,557     | US | UTL | INFORMATION RETRIEVAL SYSTEM AND METHOD EMPLOYING SPATIALLY SELECTIVE FEATURES  | 10/9/2002   | 4/27/2010  |
| -          | -                  | PCT/CA02/00144 | WO | UTL | INFORMATION RETRIEVAL SYSTEM AND METHOD EMPLOYING SPATIALLY SELECTIVE FEATURES  | 2/11/2002 - | -          |
| 6301614    | -                  | 09/433,008     | US | UTL | SYSTEM AND METHOD FOR EFFICIENT REPRESENTATION OF DATA SET ADDRESSES IN A WEB CRAWLER   | 11/21/1999  | 10/9/2001  |
| 6286006    | -                  | 09/307,320     | US | UTL | Method and Apparatus for Finding Mirrored Hosts by Analyzing URLs   | 5/7/1999    | 9/4/2001   |

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|         |                    |            |    |     |   |            |            |
|---------|--------------------|------------|----|-----|---|------------|------------|
| 5915251 | -                  | 09/054,445 | US | UTL | Method and Apparatus For Generating And Searching Range-Based Index Of World Locations  | 4/31/1998  | 6/22/1999  |
| 6487555 | -                  | 09/307,153 | US | UTL | Method And Apparatus for Mirrored Host by Analyzing Connectivity And IP Address   | 5/7/1999   | 11/26/2002 |
| 6560600 | -                  | 09/696,922 | US | UTL | Method and Apparatus for ranking web page search results  | 10/25/2000 | 5/6/2003   |
| 6871202 | US 2004-011412 A1  | 10/431,644 | US | UTL | Method and apparatus for ranking web page search results  | 5/6/2003   | 3/22/2005  |
| 7620622 | -                  | 09/802,114 | US | UTL | Method and System for Indexing Information and Providing Results for a Search Including Objects Having Predetermined Attributes | 3/8/2001   | 11/17/2009 |
| 8171010 | US-2010-0042594-A1 | 12/581,278 | US | UTL | Method and system for indexing information and providing results for a search including objects having predetermined attributes | 10/19/2009 | 5/1/2012   |
| 9031942 | 2012-0246151       | 13/433,902 | US | UTL | Method and System for Indexing Information and Providing Results for a Search Including Objects Having Predetermined Attributes | 3/29/2012  | 5/12/2015  |
| -       | 2014-0195523 A1    | 14/205,908 | US | UTL | METHOD AND SYSTEM FOR OPTIMUM PLACEMENT OF ADVERTISEMENTS ON A WEBPAGE  | 3/12/2014  | -          |
| 6907566 | -                  | 09/285,929 | US | UTL | METHOD AND SYSTEM FOR OPTIMUM PLACEMENT OF ADVERTISEMENTS ON A WEBPAGE  | 4/2/1999   | 6/14/2005  |
| 7100111 | US 2003-0149937 A1 | 10/366,802 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 2/14/2003  | 8/29/2006  |
| 7373599 | US 2003-0149938 A1 | 10/366,853 | US | UTL | Method For Optimum Placement Of Advertisements On A Webpage   | 2/14/2003  | 5/13/2008  |
| 9076162 | 2008-0097834 A1    | 11/963,551 | US | UTL | Method For Optimum Placement Of Advertisements On A Webpage   | 12/21/2007 | 7/7/2015   |
| -       | 2011-0264510 A1    | 13/175,023 | US | UTL | Method For Optimum Placement of Advertisements On A Webpage   | 7/1/2011   | -          |
| -       | 2011-0264509 A1    | 13/175,014 | US | UTL | Method For Optimum Placement of Advertisements On A Webpage   | 7/1/2011   | -          |
| 8521588 | 2011-0276411 A1    | 13/175,037 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 7/1/2011   | 8/27/2013  |
| -       | 2013-0041765 A1    | 13/614,947 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 9/13/2012  | -          |
| -       | 2013-0047062 A1    | 13/616,711 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 9/14/2012  | -          |
| -       | 2013-0047063 A1    | 13/617,588 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 9/14/2012  | -          |
| -       | 2013-0047076 A1    | 13/617,647 | US | UTL | Method and System for Optimum Placement of Advertisements on a Webpage  | 9/14/2012  | -          |



SCHEDULE OF ASSETS

|         |                    |            |    |     |  |            |            |
|---------|--------------------|------------|----|-----|--|------------|------------|
| 6119124 | -                  | 09/048,653 | US | UTL | Method For Clustering Closely-resembling Data Objects  | 3/26/1998  | 9/12/2000  |
| 6349296 | -                  | 09/642,017 | US | UTL | Method For Clustering Closely-resembling Data Objects  | 8/2/2000   | 2/19/2002  |
| 5909677 | -                  | 08/665,709 | US | UTL | Method For Determining the Resemblance of Documents  | 6/18/1996  | 6/1/1999   |
| 6230155 | -                  | 09/197,928 | US | UTL | Method For Determining The Resemblance of Documents  | 11/23/1998 | 5/8/2001   |
| 6005503 | -                  | 09/031,882 | US | UTL | Method For Encoding And Decoding A List Of Variable Size Integers To Reduce Branch Mispredicts | 2/27/1998  | 12/21/1999 |
| 5724033 | -                  | 08/695,059 | US | UTL | Method For Encoding Delta Values   | 8/9/1996   | 3/3/1998   |
| 5914679 | -                  | 09/032,826 | US | UTL | Method For Encoding Delta Values   | 2/27/1998  | 6/22/1999  |
| 6711568 | -                  | 09/709,003 | US | UTL | Method for estimating coverage of web search engines   | 11/8/2000  | 3/23/2004  |
| 7308445 | US 2005-0055342 A1 | 10/761,800 | US | UTL | METHOD FOR ESTIMATING COVERAGE OF WEB SEARCH ENGINE  | 1/21/2004  | 12/11/2007 |
| 5974481 | -                  | 08/929,832 | US | UTL | Method For Estimating The Probability Of Collisions Of Fingerprints                            | 9/15/1997  | 10/26/1999 |
| 5745898 | -                  | 08/695,906 | US | UTL | Method For Generating A Compressed Index Of Information Of Records Of A Database               | 8/9/1996   | 4/28/1998  |
| 6016493 | -                  | 09/054,431 | US | UTL | Method For Generating a Compressed Index Of Information Of Records Of A Database               | 4/3/1998   | 1/18/2000  |
| 5745894 | -                  | 08/696,408 | US | UTL | Method For Generating And Searching A Range-Based Index Of Word-Locations                      | 8/9/1996   | 4/28/1998  |
| 6138113 | -                  | 09/131,469 | US | UTL | Method for Identifying Near Duplicate Pages in a Hyperlinked Environment                       | 8/10/1998  | 10/24/2000 |
| 5745900 | -                  | 08/771,192 | US | UTL | Method For Indexing Duplicate Database Records Using A Full-Record Fingerprint                 | 8/9/1996   | 4/28/1998  |
| 5970497 | -                  | 09/066,654 | US | UTL | Method For Indexing Duplicate Records Of Information In A Database                             | 4/27/1998  | 10/19/1999 |
| 6230158 | -                  | 09/420,950 | US | UTL | Method For Indexing Duplicate Records of Information of a Database                             | 10/19/1999 | 5/8/2001   |
| 5745899 | -                  | 08/689,541 | US | UTL | Method For Indexing Information Of A Database  | 8/9/1996   | 4/28/1998  |
| 5765168 | -                  | 08/696,816 | US | UTL | Method For Maintaining An Index  | 8/9/1996   | 6/9/1998   |
| 5787435 | -                  | 08/700,748 | US | UTL | Method For Mapping An Index Of A Database Into An Array Of Files                               | 8/9/1996   | 7/28/1998  |
| 5963954 | -                  | 09/123,542 | US | UTL | Method For Mapping An Index Of A Database Into An Array Of Files                               | 7/28/1998  | 10/5/1999  |
| 6269362 | -                  | 08/994,939 | US | UTL | System and Method For Monitoring Web Pages by Comparing Generated Abstracts                    | 12/19/1997 | 7/31/2001  |
| 5852820 | -                  | 08/689,542 | US | UTL | Method for Optimizing Entries for Searching an Index   | 8/9/1996   | 12/22/1998 |
| 6047286 | -                  | 09/138,088 | US | UTL | Method for Optimizing Entries for searching an Index   | 8/21/1998  | 4/4/2000   |

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SCHEDULE OF ASSETS

|            |                    |  |                 |    |     |   |             |            |
|------------|--------------------|--|-----------------|----|-----|---|-------------|------------|
| 5745889    | -                  |  | 08/694,793      | US | UTL | Method for Parsing Information of Databases Records Using Word Location Pairs and metaword Location Pairs   | 8/9/1996    | 4/28/1998  |
| 5966703    | -                  |  | 09/054,438      | US | UTL | Technique For Indexing Information Stored As A Plurality Of Records   | 4/3/1998    | 10/12/1999 |
| 5864863    | -                  |  | 08/696,406      | US | UTL | Method For Parsing, Indexing And Searching World-Wide-Web Pages   | 8/9/1996    | 1/26/1999  |
| 6021409    | -                  |  | 09/149,090      | US | UTL | Method for Parsing, Indexing, and Searching World-Wide Web Pages  | 9/8/1998    | 2/1/2000   |
| 6321220    | -                  |  | 09/207,215      | US | UTL | Method for Preventing Topic Drift In Queries In Hyperlinked environments                                    | 12/7/1998   | 11/20/2001 |
| 6112203    | -                  |  | 09/058,577      | US | UTL | Method For Ranking Documents In A Hyperlinked Environment Using Connectivity And Selective Content Analysis | 4/9/1998    | 8/29/2000  |
| 6738678    | -                  |  | 09/007,635      | US | UTL | Method for ranking hyperlinked pages using connectivity and content analysis                                | 1/15/1998   | 5/18/2004  |
| 7117206    | -                  |  | 10/429,237      | US | UTL | Method for Ranking Hyperlinked Pages Using Content and Connectivity Analysis                                | 5/5/2003    | 10/3/2006  |
| 5765158    | -                  |  | 08/696,409      | US | UTL | Method for Sampling a Compressed Index to Create a Summarized Index   | 8/9/1996    | 6/9/1998   |
| 5832500    | -                  |  | 08/695,060      | US | UTL | Method For Searching An Index   | 8/9/1996    | 11/3/1998  |
| 5966710    | -                  |  | 09/150,349      | US | UTL | Method For Searching An Index   | 9/9/1998    | 10/12/1999 |
| 5765150    | -                  |  | 08/695,905      | US | UTL | Method For Statistically Projecting The Ranking Of Information  | 8/9/1996    | 6/9/1998   |
| 5765149    | -                  |  | 08/695,057      | US | UTL | Modified Collection Frequency Ranking Method  | 8/9/1996    | 6/9/1998   |
| 5809502    | -                  |  | 08/695,904      | US | UTL | Object-Oriented Interface For An Index  | 8/9/1996    | 9/15/1998  |
| 6067543    | -                  |  | 09/135,656      | US | UTL | Object Oriented Interface For An Index  | 8/18/1998   | 5/23/2000  |
| 7043471    | US 2003-0028529 A1 |  | 10/108,745      | US | UTL | SEARCH ENGINE ACCOUNT MONITORING  | 3/28/2002   | 5/9/2006   |
| 7483886    | US-2006-0206355-AI |  | 11/430,411      | US | UTL | SEARCH ENGINE ACCOUNT MONITORING  | 5/9/2006    | 1/27/2009  |
| -          | -                  |  | 60/507,031      | US | PRV | Method and System for Scheduling Electronic Advertising   | 9/29/2003 - |            |
| 8527346    | US-2007-0174114-A1 |  | 10/880,183      | US | UTL | Method and System for Scheduling Electronic Advertising   | 6/28/2004   | 9/3/2013   |
| -          | 2014-0025486 A1    |  | 14/016,220      | US | UTL | Method and System for Scheduling Electronic Advertising   | 9/2/2013 -  |            |
| 2001264947 | -                  |  | 2001264947      | AU | UTL | ONLINE MEDIA EXCHANGE   | 5/24/2001   | 6/17/2005  |
| 2409995    | -                  |  | 2409995         | CA | UTL | ONLINE MEDIA EXCHANGE   | 5/24/2001   | 1/12/2010  |
| 7962363    | US-2010-0082439-A9 |  | 10/303,167      | US | UTL | Online Media Exchange   | 11/22/2002  | 6/14/2011  |
| 10-0782200 | 10-2003-0013338    |  | 10-2002-0045961 | KR | UTL | Search Engine Account Monitoring  | 8/3/2002    | 11/28/2007 |
| 7076479    | -                  |  | 09/922,090      | US | UTL | Search Engine Account Monitoring  | 8/3/2001    | 7/11/2006  |
| 5745890    | -                  |  | 08/694,912      | US | UTL | Sequential Searching Of A Database Index Using Constraints On Word-Location Pairs                           | 8/9/1996    | 4/28/1998  |
| 6105019    | -                  |  | 09/361,383      | US | UTL | CONSTRAINED SEARCHING OF AN INDEX   | 6/26/1999   | 8/15/2000  |
| 6317741    | -                  |  | 09/634,465      | US | UTL | Technique for deleting duplicate records references in an index of a database                               | 8/7/2000    | 11/13/2001 |

PATENT

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SCHEDULE OF ASSETS

|            |                    |                 |    |     |  |            |            |
|------------|--------------------|-----------------|----|-----|--|------------|------------|
| 6745194    | -                  | 09/920,851      | US | UTL | Technique for deleting duplicate records references in an index of a database  | 8/2/2001   | 6/1/2004   |
| 7406460    | 2004-0243569 A1    | 10/827,354      | US | UTL | Technique for ranking records of a database System and Method Allowing Advertisers to Manage Search Listings In A Pay For Placement Search System Using Grouping | 4/20/2004  | 7/29/2008  |
| 6826572    | US 2003-0093285 A1 | 09/994,912      | US | UTL | ADVERTISERS TO MANAGE SEARCH LISTINGS IN A PAY FOR PLACEMENT SEARCH SYSTEM USING GROUPING  | 11/13/2001 | 11/30/2004 |
| 7043483    | US 2004-0260689 A1 | 10/863,876      | US | UTL | System and Method Allowing Advertisers To Manage Search Listings in a Pay For Placement Search System Using Grouping   | 6/8/2004   | 5/9/2006   |
| 7698315    | US-2006-0206508-A1 | 11/429,738      | US | UTL | SYSTEM AND METHOD FOR RAPID COMPLETION OF DATA PROCESSING TASKS DISTRIBUTED ON A NETWORK   | 5/8/2006   | 4/13/2010  |
| 2001241453 | -                  | 2001241453      | AU | UTL | System and Method for Rapid Completion of Date Processing Tasks Distributed On A Network   | 2/6/2001   | 1/27/2005  |
| 2400216    | -                  | 2400216         | CA | UTL | SYSTEM AND METHOD FOR RAPID COMPLETION OF DATA PROCESSING TASKS DISTRIBUTED ON A NETWORK   | 2/6/2001   | 8/28/2012  |
| 2392997    | 2392997            | 219492          | GB | UTL | SYSTEM AND METHOD FOR RAPID COMPLETION OF DATA PROCESSING TASKS DISTRIBUTED ON A NETWORK   | 2/6/2001   | 3/30/2005  |
| 502878     | 10/2002-0079849    | 10-2002-7010416 | KR | UTL | SYSTEM AND METHOD FOR RAPID COMPLETION OF DATA PROCESSING TASKS DISTRIBUTED ON A NETWORK   | 2/6/2001   | 7/13/2005  |
| 6775831    | -                  | 09/502,692      | US | UTL | SYSTEM AND METHOD FOR RAPID COMPLETION OF DATA PROCESSING TASKS DISTRIBUTED ON A NETWORK   | 2/11/2000  | 8/10/2004  |
| -          | WO2001/59561       | US01/03801      | WO | UTL | A System and Method to Determine the Validity of an Interaction on a Network   | 2/6/2001   | -          |
| 2001236953 | -                  | 2001236953      | AU | UTL | A System and Method to Determine the Validity of an Interaction on a Network   | 2/12/2001  | 1/13/2005  |
| 2400199    | -                  | 2400199         | CA | UTL | SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK   | 2/12/2001  | 4/12/2011  |
| 1275053    | -                  | 1909169         | EP | UTL | SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK   | 2/12/2001  | 4/5/2006   |
| 1275053    | -                  | 1909169         | GB | UTL | SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK   | 2/12/2001  | 4/5/2006   |
| 10-0595786 | 10-2003-0001357    | 10-2002-7010554 | KR | UTL | SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK   | 2/12/2001  | 6/23/2006  |
| -          | -                  | 60/182,147      | US | PRV | SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK   | 2/14/2000  | -          |

SCHEDULE OF ASSETS

|            |                    |                 |    |     |  |            |            |
|------------|--------------------|-----------------|----|-----|--|------------|------------|
| 7447691    | -                  | 1/1/27,024      | US | UTL | A System and Method to Determine the Validity of an Interaction on a Network   | 5/11/2005  | 11/4/2008  |
| 7136860    | US 2002-0002445 A1 | 09/765,802      | US | UTL | VALIDITY OF AN INTERACTION ON A NETWORK<br>A SYSTEMS AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK | 1/19/2001  | 11/14/2006 |
| 7668861    | US-2008-0010307-A1 | 11/858,509      | US | UTL | A System and Method to Determine the Validity of an Interaction on a Network   | 9/20/2007  | 2/23/2010  |
| 7933903    | US-2010-0125542-A1 | 12/692,350      | US | UTL | System and Method to Determine the Validity of an Interaction on a Network   | 1/22/2010  | 4/26/2011  |
| 8423543    | 2011-0145248       | 13/034,466      | US | UTL | System And Method To Determine The Validity Of An Interaction On A Network   | 2/24/2011  | 4/16/2013  |
| -          | 2013-0226924 A1    | 13/858,600      | US | UTL | An Interaction On A Network<br>SYSTEM AND METHOD TO DETERMINE THE VALIDITY OF AN INTERACTION ON A NETWORK                | 4/8/2013   | -          |
| -          | WO 2001/61536      | US01/04549      | WO | UTL | Online playback system with community bias   | 2/12/2001  | -          |
| 2001271980 | -                  | 2001271980      | AU | UTL | Online Playback System With Community Bias   | 7/10/2001  | 11/11/2004 |
| -          | 1307831            | 1951044         | EP | UTL | Online playback system with community bias   | 7/10/2001  | -          |
| 10-0691549 | -                  | 10-2003-7000444 | KR | UTL | Online playback system with community bias   | 7/10/2001  | 2/28/2007  |
| -          | -                  | 60/217,594      | US | PRV | Online Playback System With Community Bias   | 7/11/2000  | -          |
| 7454509    | US 2003-0046399 A1 | 09/903,033      | US | UTL | Technique for Ranking Multimedia Annotations of Interest   | 7/10/2001  | 11/18/2008 |
| 6173287    | -                  | 09/037,957      | US | UTL | Technique for Accessing an Item of Interest Within a Stored Representation of Data                                       | 3/11/1998  | 1/9/2001   |
| 6243708    | -                  | 09/204,283      | US | UTL | Technique For Storing Data Information In a Network  | 12/3/1998  | 6/5/2001   |
| 6219671    | -                  | 09/204,285      | US | UTL | Technique for organizing data information in a network   | 12/3/1998  | 4/17/2001  |
| 6704738    | -                  | 09/204,556      | US | UTL | Technique for Annotating Media   | 12/3/1998  | 3/9/2004   |
| 6332144    | -                  | 09/204,284      | US | UTL | Technique for Indexing Data in a Network   | 12/3/1998  | 12/18/2001 |
| 6266657    | -                  | 09/427,279      | US | UTL | Technique for Matching a Query to a Portion of Media (as Amended)  | 10/26/1999 | 7/24/2001  |
| 6311189    | -                  | 09/204,286      | US | UTL | Technique for locating an item of interest within a stored representation of data  | 12/3/1998  | 10/30/2001 |
| 6799298    | -                  | 09/814,213      | US | UTL | Technique for Processing Data in a Network (As Amended)  | 3/22/2001  | 9/28/2004  |
| 8060509    | US-2005-0044078-A1 | 10/935,120      | US | UTL | Technique for Processing Data  | 9/8/2004   | 11/15/2011 |
| 6275827    | -                  | 09/204,287      | US | UTL | Technique for processing data in a network   | 12/3/1998  | 8/14/2001  |
| 9122682    | 2012-0207447 A1    | 13/089,854      | US | UTL | Technique for processing data in a network   | 4/19/2011  | 9/1/2015   |
| 8504576    | US-2012-0209843    | 13/089,872      | US | UTL | Technique For processing Data in a Network   | 4/19/2011  | 8/6/2013   |
| -          | 2014-0019479 A1    | 13/929,678      | US | UTL | Technique For Processing Data In a Network   | 6/27/2013  | -          |
| -          | 2015-0317308 A1    | 14/798,510      | US | UTL | Technique for processing data in a network   | 7/14/2015  | -          |

SCHEDULE OF ASSETS

|            |                    |                |    |     |  |            |            |
|------------|--------------------|----------------|----|-----|--|------------|------------|
| 2003204104 | -                  | 2003204104     | AU | UTL | Use of Extensible Markup Language in a System and Method for Influencing a Position on a Search Result List Generated by a Computer Network Search Engine            | 5/8/2003   | 1/24/2008  |
| 2428076    | -                  | 2428076        | CA | UTL | Use of Extensible Markup Language in a System and Method for Influencing a Position on a Search Result List Generated by a Computer Network Search Engine            | 5/7/2003   | 10/27/2009 |
| 305545     | -                  | 305545         | FR | UTL | USE OF EXTENSIBLE MARKUP LANGUAGE IN A SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE            | 5/7/2003   | 12/7/2007  |
| HK1065131  | -                  | 4107733        | HK | UTL | USE OF EXTENSIBLE MARKUP LANGUAGE IN A SYSTEM AND METHOD FOR INFLUENCING A POSITION ON A SEARCH RESULT LIST GENERATED BY A COMPUTER NETWORK SEARCH ENGINE            | 5/8/2003   | 7/3/2009   |
| 7054857    | US 2003-0212648 A1 | 10/141,385     | US | UTL | Use of Extensible Markup Language In a System and Method for Influencing a Position on a Search Result List Generated by a Computer Network Search Engine            | 5/8/2002   | 5/30/2006  |
| 7698281    | US-2006-0212437-A1 | 11/440,960     | US | UTL | Web Crawler System and Method for Associating an Extensible Set of Data with Downloaded Documents  | 5/25/2006  | 4/13/2010  |
| 6351755    | -                  | 09/433,006     | US | UTL | Web Crawler System and Method for Guaranteeing Politeness  | 11/21/1999 | 2/26/2002  |
| 6321265    | -                  | 09/433,005     | US | UTL | A WEB CRAWLER SYSTEM USING PLURALITY OF PARALLEL PRIORITY LEVEL QUEUES HAVING DISTINCT ASSOCIATED DOWNLOAD PRIORITY LEVELS FOR PRIORITIZING DOCUMENT DOWNLOADING AND | 11/21/1999 | 11/20/2001 |
| 6263364    | -                  | 09/433,007     | US | UTL | MAINTAINING DOCUMENT FRESHNESS   | 11/21/1999 | 7/17/2001  |
| 6598051    | -                  | 09/664,647     | US | UTL | Web Page Connectivity Server   | 9/19/2000  | 7/22/2003  |
| 7756752    | 2007/10043626      | 11/209,595     | US | UTL | CUSTOMIZATION OF AN ONLINE SHOPPING EXPERIENCE   | 8/22/2005  | 7/13/2010  |
| 7506029    | US-2007-0033255-A1 | 11/197,056     | US | UTL | Establishing Communication Between a Messaging Client and a Remote Device Running a Browsing Application   | 8/3/2005   | 3/17/2009  |
| 2006275659 | -                  | 2006275659     | AU | UTL | System and Method for Reordering a Result Set  | 7/27/2006  | 12/16/2010 |
| -          | 48/2008            | 998/CHENP/2008 | IN | UTL | System and Method for Reordering a Result Set  | 7/27/2006  | -          |

SCHEDULE OF ASSETS

|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 10-1009174 | -                  | 10-2008-7004983 | KR | UTL | System and Method For Displaying Advertiser Defined Groups of Advertisement Campaign Information  | 7/25/2006  | 1/11/2011  |
| 10-999707  | -                  | 10-2008-7004905 | KR | UTL | System and Method for Reordering a Result Set   | 7/27/2006  | 12/2/2010  |
| 164393     | -                  | 201005504-4     | SG | UTL | RESULT SET  | 7/27/2006  | 4/15/2011  |
| -          | -                  | 60/703,904      | US | PRV | System and method allowing information provider access to a networked database search system  | 7/29/2005  | -          |
| 8321274    | 20070033103        | 11/413,535      | US | UTL | Advertiser alerting system and method in a networked database search system   | 4/28/2006  | 11/27/2012 |
| 8321275    | 20080147498        | 11/413,699      | US | UTL | Advertiser reporting system and method in a networked database search system (PANAMA)   | 4/28/2006  | 11/27/2012 |
| 7685019    | US-2007-0027753-A1 | 11/321,888      | US | UTL | System and Method For Optimizing The Delivery of Advertisements   | 12/28/2005 | 3/23/2010  |
| 7809731    | US-2007-0027869-A1 | 11/264,741      | US | UTL | System and method for reordering a result set   | 10/31/2005 | 10/5/2010  |
| 7840438    | US-2007-0027743-A1 | 11/281,917      | US | UTL | System and method for discounting of historical click through data for multiple versions of an advertisement  | 11/16/2005 | 11/23/2010 |
| 7631008    | US-2007-0112840-A1 | 11/479,186      | US | UTL | System And Method For Generating Functions To Predict The Clickability Of Advertisements  | 6/29/2006  | 12/8/2009  |
| -          | 20080103893        | 11/324,129      | US | UTL | System and Method For Advertisement Management  | 12/30/2005 | -          |
| -          | 2007-0027766 A1    | 11/493,048      | US | UTL | Architecture for High Speed Delivery of Advertising Content   | 7/25/2006  | -          |
| -          | 2007-0027770 A1    | 11/506,953      | US | UTL | System and method for providing scalability in an advertising delivery system   | 8/17/2006  | -          |
| 7949563    | 20070027768        | 11/494,304      | US | UTL | System and Method For Collection of Advertising Usage Information   | 7/26/2006  | 5/24/2011  |
| -          | 20070027762        | 11/413,539      | US | UTL | System and Method for Creating and Providing a User Interface for Optimizing Advertiser Defined Groups of Advertisement Campaign Information (PANAMA) | 4/28/2006  | -          |
| -          | 20070027759        | 11/413,465      | US | UTL | Application Program Interface for Managing Advertiser Defined Groups of Advertisement Campaign Information (PANAMA)                                   | 4/28/2006  | -          |
| 8533040    | 2007-0179857       | 11/697,928      | US | UTL | System and method for optimizing the selection and delivery of advertisements   | 4/9/2007   | 9/10/2013  |
| -          | 2007-0033105 A1    | 11/490,467      | US | UTL | Architecture for Distribution of Advertising Content and Change Propagation   | 7/19/2006  | -          |
| 9159073    | 2008-0255915 A1    | 12/145,065      | US | UTL | System and Method For Advertisement Management  | 6/24/2008  | 10/13/2015 |
| -          | WO 2007/016406     | PCT/US06/29556  | WO | UTL | SYSTEM AND METHOD FOR REORDERING A RESULT SET   | 7/27/2006  | -          |

SCHEDULE OF ASSETS

|           |                    |                          |    |            |  |                                    |
|-----------|--------------------|--------------------------|----|------------|--|------------------------------------|
| -         | WO 2007/016042     | PCT/US2006/028711        | WO | UTL        | System and Method for Creating and Providing a User Interface for Managing Advertiser Defined Groups of Advertisement Campaign Information (PANAMA)  | 7/25/2006 -                        |
| 6950994   | US 2002-0026524 A1 | 60/230,071<br>09/938,802 | US | PRV<br>UTL | Data list transmutation and input mapping<br>Data list transmutation and input mapping<br>Difference control for generating and displaying a difference result set from the result sets of a plurality of search engines | 8/31/2000 -<br>8/24/2001 9/27/2005 |
| 7747614   | US-2007-0100822-A1 | 11/264,740               | US | UTL        | System and Method for Determining Alternate Search Queries   | 10/31/2005 6/29/2010               |
| 7634462   | US-2007-0038621-A1 | 11/200,851               | US | UTL        | ALTERNATIVE SEARCH QUERY PROCESSING IN A TERM BIDDING SYSTEM   | 8/10/2005 12/15/2009               |
| 7752220   | US-2007-0038602-A1 | 11/202,388               | US | UTL        | System and Method for Identifying Media Content Items and Related Media Content Items  | 8/10/2005 7/6/2010                 |
| 8166029   | US-2008-0126303-A1 | 11/518,378               | US | UTL        | System and method for labeling a document  | 9/7/2006 4/24/2012                 |
| 7680760   | US-2007-0100813-A1 | 11/261,981               | US | UTL        | System and method for the retrieval and display of supplemental content  | 10/28/2005 3/16/2010               |
| 8983923   | US-2008-0183742-A1 | 11/626,903               | US | UTL        | Systems And Methods For Identifying Premium Content Items In A Result Set  | 1/25/2007 3/17/2015                |
| 7877395   | US-2008-0147613-A1 | 11/641,342               | US | UTL        | Systems And Methods For Identifying Premium Content Items In A Result Set  | 12/18/2006 1/25/2011               |
| 8041723   | 2011-0087649       | 12/970,164               | US | UTL        | Search Score For The Determination of Search Quality   | 12/16/2010 10/18/2011              |
| 8095419   | -                  | 11/253,056               | US | UTL        | System and method for determining a relationship between available content and current interest to identify a need for content   | 10/17/2005 1/10/2012               |
| 8010529   | US-2008-0097955-A1 | 11/585,288               | US | UTL        | System and Method for Interacting with Data Using Visual Surrogates  | 10/23/2006 8/30/2011               |
| 7747686   | US-2007-0233814-A1 | 11/394,745<br>60/705,735 | US | UTL<br>PRV | Music Search Engine  | 3/31/2006 6/29/2010<br>8/3/2005 -  |
| 8005827   | US-2007-0033199-A1 | 11/499,057               | US | UTL        | System And Method For Accessing A Preferred Provider Of Audio Content  | 8/3/2006 8/23/2011                 |
| 7849070   | 20070033228        | 11/499,056               | US | UTL        | System And Method For Dynamically Ranking Items Of Audio Content   | 8/3/2006 12/7/2010                 |
| 7702341   | 2007/0077949       | 11/242,486               | US | UTL        | Shortcut For Establishing A Communication Channel With A Remote Device Over A Network  | 10/3/2005 4/20/2010                |
| 8370439   | US 2007-0214222-A1 | 11/371,845               | US | UTL        | ACTIVATING AUTOMATIC MESSAGING SYSTEM  | 3/9/2006 2/5/2013                  |
| -         | US-2008-0065737-A1 | 11/462,222               | US | UTL        | ELECTRONIC DOCUMENT INFORMATION EXTRACTION   | 8/3/2006 -                         |
| -         | EP 1938180         | 6825981                  | EP | UTL        | A Method and System For Selecting Media  | 10/13/2006 -                       |
| 10-978689 | -                  | 10-2008-7011336          | KR | UTL        | A System And Method For Selecting Media  | 10/13/2006 8/23/2010               |
| -         | 2007-0088727 A1    | 11/250,358               | US | UTL        | Media device and user interface for selecting media  | 10/14/2005 -                       |
| -         | 2014-0297656 A1    | 14/145,079               | US | UTL        | Media Device and User Interface for Selecting Media  | 12/31/2013 -                       |

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|         |                    |                   |    |     |  |                      |
|---------|--------------------|-------------------|----|-----|--|----------------------|
| -       | WO 2007/047541     | PCT/US2006/040282 | WO | UTL | A System And Method For Selecting Media System And Method For Recognizing and Storing Information And Associated Context | 10/13/2006 -         |
| 8056007 | US-2008-0115086-A1 | 11/600,667        | US | UTL | Business Intelligent Architecture System and Method  | 11/15/2006 11/8/2011 |
| 7580944 | US-2008-0027970-A1 | 11/493,950        | US | UTL | Business Intelligent Architecture System and Method  | 7/27/2006 8/25/2009  |
| 9158831 | 2009-0265375 A1    | 12/494,867        | US | UTL | Method   | 6/30/2009 10/13/2015 |
| 7725927 | 2007-0101412-A1    | 11/262,194        | US | UTL | Low Code-Footprint Security Solution   | 10/28/2005 5/25/2010 |
| 7873696 | 2007-0100975-A1    | 11/262,052        | US | UTL | Scalable Software Blade Architecture   | 10/28/2005 1/18/2011 |
| 7870288 | US 2007-0101022 A1 | 11/262,549        | US | UTL | Sharing Data in Scalable Software Blade Architecture   | 10/28/2005 1/11/2011 |
| 7779157 | 2007-010121-A1     | 11/262,340        | US | UTL | Recovering a Blade in Scalable Software Blade Architecture   | 10/28/2005 8/17/2010 |
| 8819051 | US-2007-0073669-A1 | 11/239,708        | US | UTL | Tagging Offline Content With Context-Sensitive Search-Enabling Keywords  | 9/29/2005 8/26/2014  |
| -       | 31/2009            | 2916/DEL/2005     | IN | UTL | METHOD AND MECHANISM FOR ANALYZING THE TEXTURE OF A DIGITAL IMAGE  | 10/31/2005 -         |
| 7583839 | US-2007-0098259    | 11/316,728        | US | UTL | Method and Mechanism for Analyzing the Texture of a Digital Image  | 12/22/2005 9/1/2009  |
| -       | 32/2007            | 95/DEL/2006       | IN | UTL | FAST CONTENT BASED MUSIC SEARCH ENGINE   | 1/12/2006 -          |
| 8108452 | US-2007-0162436-A1 | 11/370,321        | US | UTL | Keyword Based Audio Comparison   | 3/7/2006 1/31/2012   |
| 7860308 | US-2007-0127813-A1 | 11/506,330        | US | UTL | Approach for Near Duplicate Image Detection  | 8/17/2006 12/28/2010 |
| -       | 28/2007            | 897/KOL/2005      | IN | UTL | IMAGE CLASSIFICATION TO GRAPH/PHOTO Method and Mechanism for Processing Image Data                                       | 9/28/2005 -          |
| 7627166 | US-2007-0076950-A1 | 11/291,183        | US | UTL | Method and Mechanism for Retrieving Images   | 11/30/2005 12/1/2009 |
| -       | 31/2009            | 2918/DEL/2005     | IN | UTL | Method and Mechanism for Retrieving Images   | 10/31/2005 -         |
| 7831111 | US-2007-0097420-A1 | 11/317,952        | US | UTL | UNSUPERVISED LEARNING TOOL FOR FEATURE CORRECTION  | 12/22/2005 11/9/2010 |
| -       | 39356              | 753/KOL/2005      | IN | UTL | Unsupervised Learning Tool For Feature Correction  | 8/17/2005 -          |
| 7483903 | US-2007-0043707-A1 | 11/253,023        | US | UTL | SYSTEM AND METHOD FOR DETERMINING CONCEPTS IN A CONTENT ITEM USING CONTEXT   | 10/17/2005 1/27/2009 |
| -       | 39630              | 1396/CHE/2006     | IN | UTL | System And Method For Determining Concepts In A Content Item Using Context   | 8/4/2006 -           |
| 8856145 | US-2008-0033982-A1 | 11/639,849        | US | UTL | System and Method for Determining Concepts in a Content Item Using Context   | 12/15/2006 10/7/2014 |
| -       | 2014-0365499 A1    | 14/467,339        | US | UTL | Method and System of Measuring Data Quality  | 8/25/2014 -          |
| 7251578 | -                  | 11/373,701        | US | UTL | URL Shortening And Authentication With Reverse Hash Lookup   | 3/10/2006 7/31/2007  |
| 7698269 | US-2007-0136279-A1 | 11/288,596        | US | UTL | Methods For Navigating Collections Of Information In Varying Levels Of Detail  | 11/29/2005 4/13/2010 |
| 7693912 | US-2007-0100799-A1 | 11/264,520        | US | UTL | Systems and Methods for Presenting Information Based on Publisher-Selected Labels  | 10/31/2005 4/6/2010  |
| 7421441 | -                  | 11/231,632        | US | UTL |  | 9/20/2005 9/2/2008   |

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|            |                      |                   |    |     |   |            |            |
|------------|----------------------|-------------------|----|-----|---|------------|------------|
| 8478792    | US-2008-0320021-A1   | 12/167,046        | US | UTL | Systems and Methods for Presenting Information Based on Publisher-Selected Labels                               | 7/2/2008   | 7/2/2013   |
| 7409402    | -                    | 11/232,270        | US | UTL | Systems and Methods for Presenting Advertising Content Based On Publisher Selected Labels                       | 9/20/2005  | 8/5/2008   |
| 8069099    | US-2008-0262931-A1   | 12/147,430        | US | UTL | Systems and Methods for Presenting Advertising Content Based On Publisher Selected Labels                       | 6/26/2008  | 11/29/2011 |
| 7636766    | US 2007-0113178-A1   | 11/274,245        | US | UTL | REMOTE SELECTION AND INSTALLATION OF AUXILIARY CONTENT  | 11/15/2005 | 12/22/2009 |
| 7869579    | 2007-0133524-A1      | 11/297,983        | US | UTL | SELECTABLE REPLAY OF BUFFERED CONVERSATION IN A VOIP SESSION  | 12/9/2005  | 1/11/2011  |
| 7584183    | US-2007-0179943-A1   | 11/346,860        | US | UTL | Method For Node Classification And Scoring By Combining Parallel Iterative Scoring Calculation                  | 2/1/2006   | 9/1/2009   |
| 8156135    | US-2008-0154859-A1   | 11/644,734        | US | UTL | Method and System for Progressive Disclosure of Search Results  | 12/22/2006 | 4/10/2012  |
| 7555478    | US-2008-0133505-A1   | 11/635,451        | US | UTL | SEARCH RESULTS PRESENTED AS VISUALLY ILLUSTRATIVE CONCEPTS  | 12/5/2006  | 6/30/2009  |
| 7555477    | US-2008-0133483-A1   | 11/635,247        | US | UTL | Paid content based on visually illustrative concepts  | 12/5/2006  | 6/30/2009  |
| -          | US-2008-0155060-A1   | 11/644,696        | US | UTL | EXPORTED OVERLAYS   | 12/22/2006 | -          |
| -          | 2054812              | 7811449           | EP | UTL | Persistent Saving Portal  | 8/20/2007  | -          |
| -          | WO 2008/024325       | 1401/CHENP/2009   | IN | UTL | Persistent Saving Portal  | 8/20/2007  | -          |
| 10-1120301 | -                    | 10-2009-7/005792  | KR | UTL | Persistent Saving Portal  | 8/20/2007  | 2/17/2012  |
| 10-1409673 | -                    | 10-2011-7/009970  | KR | UTL | Persistent Saving Portal  | 8/20/2007  | 6/12/2014  |
| 8572202    | US-2008-0052369-A1   | 11/508,596        | US | UTL | PERSISTENT SAVING PORTAL  | 8/22/2006  | 10/29/2013 |
| 8745162    | US-2008-0052372-A1   | 11/656,052        | US | UTL | Method and System For Presenting Information With Multiple Views  | 1/19/2007  | 6/3/2014   |
| -          | 2008/024325          | PCT/US2007/018446 | WO | UTL | Persistent Saving Portal  | 8/20/2007  | -          |
| 7814097    | US 2007/0214128      | 11/370,314        | US | UTL | Discovering Alternative Spellings through Query Co-occurrence   | 3/7/2006   | 10/12/2010 |
| -          | 2007-0089057 A1      | 11/250,359        | US | UTL | Method and system for selecting media SYSTEMS AND METHODS FOR ASSIGNING MONETARY VALUES TO SEARCH TERMS         | 10/14/2005 | -          |
| 8015065    | US-2007-0129997-A1   | 11/262,011        | US | UTL | METHOD AND SYSTEM FOR DISPLAYING CONTEXTUAL Method and system for displaying contextual rotating advertisements | 10/28/2005 | 9/6/2011   |
| 8595633    | US-2007-0100867-A1   | 11/264,366        | US | UTL | Clickable Map Interface   | 10/31/2005 | 11/26/2013 |
| 8700586    | 2007-0100802 A1      | 11/329,601        | US | UTL | System For Identifying And Selecting Advertising Categories   | 1/12/2006  | 4/15/2014  |
| -          | 2014-0143054 A1      | 14/163,435        | US | UTL | System For Selecting Ad Inventory with a Clickable Map Interface  | 1/24/2014  | -          |
| 8682713    | 2009-0012866 A1      | 12/175,241        | US | UTL | Method and System for Entering Search Queries   | 7/17/2008  | 3/25/2014  |
| -          | 2007-0250511 A1      | 11/408,670        | US | UTL | MULTI-MODAL AUTO COMPLETE FUNCTION FOR A CONNECTION   | 4/21/2006  | -          |
| 7583671    | U.S. 2007-0115991-A1 | 11/285,875        | US | UTL | Instant Messaging Interoperability Between Disparate Service Providers  | 11/23/2005 | 9/1/2009   |
| -          | 1932300              | 6816175           | EP | UTL | Instant Messaging Interoperability Between Disparate Service Providers  | 10/3/2006  | -          |
| -          | 2503748              | 12166788          | EP | UTL | Instant Messaging Interoperability Between Disparate Service Providers  | 10/3/2006  | -          |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 10-1022901 | -                  | 10-2008-7010888   | KR | UTL | INSTANT MESSAGING INTEROPERABILITY BETWEEN DISPARATE SERVICE PROVIDERS                            | 10/3/2006  | 3/9/2011   |
| -          | -                  | 60/724,577        | US | PRV | INSTANT MESSAGING INTEROPERABILITY BETWEEN DISPARATE SERVICE PROVIDERS                            | 10/7/2005  | -          |
| 9053461    | 2007-0083675 A1    | 11/528,753        | US | UTL | Instant messaging interoperability between disparate service providers                            | 9/27/2006  | 6/9/2015   |
| -          | 2015-0271129 A1    | 14/733,501        | US | UTL | Instant messaging interoperability between disparate service providers                            | 6/8/2015   | -          |
| -          | WO 2007/044371     | PCT/US2006/038728 | WO | UTL | INSTANT MESSAGING INTEROPERABILITY BETWEEN DISPARATE SERVICE PROVIDERS                            | 10/3/2006  | -          |
| 7921109    | US-2007-0078828-A1 | 11/244,261        | US | UTL | Customizable Ordering of Search Results and Predictive Query Generation                           | 10/5/2005  | 4/5/2011   |
| -          | 2011-0145225 A1    | 13/034,982        | US | UTL | Predictive Query Generation   | 2/25/2011  | -          |
| 8190724    | US-2008-0091834-A1 | 11/580,320        | US | UTL | Systems and methods for establishing or maintaining a personalized trusted social network         | 10/13/2006 | 5/29/2012  |
| 9191456    | 2012-0203852       | 13/450,692        | US | UTL | Systems and methods for establishing or maintaining a personalized trusted social network         | 4/19/2012  | 11/17/2015 |
| -          | 2016-0050176 A1    | 14/923,616        | US | UTL | Systems and methods for establishing or maintaining a personalized trusted social network         | 10/27/2015 | -          |
| 7827004    | 2008-0028330-A1    | 11/496,825        | US | UTL | System And Method Of Identifying And Measuring Response To User Interface Design                  | 7/31/2006  | 11/2/2010  |
| 8719715    | 2010-0275138       | 12/831,755        | US | UTL | System And Method Of Identifying And Measuring Response To User Interface Design                  | 7/7/2010   | 5/6/2014   |
| -          | -                  | 60/229,662        | US | PRV | Reduction of Meta Data in a Network   | 8/31/2000  | -          |
| 6892206    | US2002-0026460 A1  | 09/938,799        | US | UTL | Reduction of Meta-Data in a Network   | 8/24/2001  | 5/10/2005  |
| -          | -                  | 60/411,535        | US | PRV | Spelling in Web Search  | 9/17/2002  | -          |
| -          | -                  | 60/413,092        | US | PRV | Spelling in Web Search  | 9/23/2002  | -          |
| 7440941    | 20080147637        | 10/364,078        | US | UTL | Suggesting An Alternative To The Spelling of A Search Query                                       | 2/10/2003  | 10/21/2008 |
| 7672927    | 20080147637        | 10/788,970        | US | UTL | Suggesting An Alternative To The Spelling of A Search Query                                       | 2/27/2004  | 3/2/2010   |
| 7747613    | US-2007-0100821-A1 | 11/264,666        | US | UTL | Presentation of Differences Between Multiple Searches   | 10/31/2005 | 6/29/2010  |
| 7747612    | 20070100797        | 11/264,292        | US | UTL | Indication of Exclusive Items In A Result Set   | 10/31/2005 | 6/29/2010  |
| 7827523    | US 2007-0198484 A1 | 11/360,793        | US | UTL | Query Serving Infrastructure Providing Flexible And Expandable Support And Compiling Instructions | 2/22/2006  | 11/2/2010  |
| -          | -                  | 60/736,133        | US | PRV | Modular Optimized Dynamic Sets  | 11/9/2005  | -          |
| 7962479    | US-2008-0140699-A1 | 11/772,600        | US | UTL | System And Method For Generating Substitutable Queries  | 7/2/2007   | 6/14/2011  |
| 7885863    | US-2008-0071602-A1 | 11/514,429        | US | UTL | Methods And Computer Readable Media For Enhancing Product Reviews                                 | 8/31/2006  | 2/8/2011   |
| 7711732    | US-2007-0250498-A1 | 11/408,550        | US | UTL | Determining Related Term Based on Link Annotation of Documents Belonging to Search Result Sets    | 4/21/2006  | 5/4/2010   |

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|            |                     |                   |    |     |   |            |            |
|------------|---------------------|-------------------|----|-----|---|------------|------------|
| 7941436    | US 2008/0133503-A1  | 11/607,299        | US | UTL | Keyword Bidding Strategy for Novel Concepts   | 11/30/2006 | 5/10/2011  |
| 8051087    | US-2009-0100007-A1  | 12/242,148        | US | UTL | Customized Geographical Location Indexing   | 9/30/2008  | 11/1/2011  |
| -          | -                   | PCT/US09/58310    | WO | UTL | Customized Geographical Location Indexing   | 9/25/2009  | -          |
| 7729901    | US-2007-0136048-A1  | 11/314,166        | US | UTL | System for Classifying Words  | 12/13/2005 | 6/1/2010   |
| 7681147    | US-2007-0136689-A1  | 11/314,956        | US | UTL | SYSTEM FOR DETERMINING PROBABLE MEANINGS OF INPUTTED WORDS                                | 12/13/2005 | 3/16/2010  |
| 8050689    | US-2007-0146374-A1  | 11/314,187        | US | UTL | System and Method for Creating Minimum Bounding Rectangles for Use in a Geo-Coding System | 12/13/2005 | 11/1/2011  |
| 7606581    | US-2007-0135991-A1  | 11/314,155        | US | UTL | SYSTEM AND METHOD FOR PROVIDING GEO-RELEVANT INFORMATION BASED ON A LOCATION              | 12/13/2005 | 10/20/2009 |
| 7848764    | US-2010-0030646-A1  | 12/555,262        | US | UTL | System for Providing Location Predictive Advertising                                      | 9/8/2009   | 12/7/2010  |
| 7616964    | US-2007-01359932-A1 | 11/314,948        | US | UTL | SYSTEM AND METHOD FOR PROVIDING GEO-RELEVANT INFORMATION BASED ON A MOBILE DEVICE         | 12/13/2005 | 11/10/2009 |
| 7606582    | US-2007-0135992-A1  | 11/314,192        | US | UTL | System and Method for Populating a Geo-Coding Database                                    | 12/13/2005 | 10/20/2009 |
| 7853270    | US-2010-0029299-A1  | 12/544,490        | US | UTL | System for Geographically Contextualizing Data Items                                      | 8/20/2009  | 12/14/2010 |
| 7680858    | US-2008-0010291-A1  | 11/481,734        | US | UTL | TECHNIQUES FOR CLUSTERING STRUCTURALLY SIMILAR WEB PAGES                                  | 7/5/2006   | 3/16/2010  |
| 8139514    | US-2007-0200713-A1  | 11/361,268        | US | UTL | Method and System for Communicating with Multiple Users via a Map over the Internet       | 2/24/2006  | 3/20/2012  |
| 9014076    | 2012-0166972        | 13/414,223        | US | UTL | Method and System for Communicating with Multiple User Communities Via a Map              | 3/7/2012   | 4/21/2015  |
| 7685198    | US-2007-0174247-A1  | 11/339,990        | US | UTL | Systems and Method for Collaborative Tag Suggestions                                      | 1/25/2006  | 3/23/2010  |
| 8065680    | US-2007-0109592-A1  | 11/280,746        | US | UTL | Data Gateway for Jobs Management Based on a Persistent Job Table and a Server Table       | 11/15/2005 | 11/22/2011 |
| 8700462    | US-2007-0157245-A1  | 11/607,292        | US | UTL | System and method for optimizing advertisement campaigns using a limited budget           | 11/30/2006 | 4/15/2014  |
| 8185524    | US-2008-0154912-A1  | 11/644,851        | US | UTL | METHOD AND SYSTEM FOR LOCATING EVENTS IN-CONTEXT  | 12/22/2006 | 5/22/2012  |
| 10-1004479 | -                   | 10-2008-7019068   | KR | UTL | Network User Database For A Sidebar   | 1/2/2007   | 12/21/2010 |
| 8621372    | US-2007-0157110-A1  | 11/326,260        | US | UTL | Targeted sidebar advertising  | 1/5/2006   | 12/31/2013 |
| 9037996    | 2007-0157113 A1     | 11/337,373        | US | UTL | Sidebar email   | 1/23/2006  | 5/19/2015  |
| 8732585    | US-2007-0157108-A1  | 11/434,354        | US | UTL | Community Information Updates In A Sidebar  | 5/15/2006  | 5/20/2014  |
| -          | 2014-0101599 A1     | 14/104,148        | US | UTL | Targeted sidebar advertising  | 12/12/2013 | -          |
| -          | WO 2007/079463      | PCT/US2007/060010 | WO | UTL | Network User Database For A Sidebar   | 1/2/2007   | -          |
| 8429177    | US-2007-0198603-A1  | 11/350,967        | US | UTL | Using Exceptional Changes in Webgraph Snapshots Over Time For Internet Entity Marking     | 2/8/2006   | 4/23/2013  |
| -          | -                   | 4/757365          | EP | UTL | Method and System of Controlling a Context Menu   | 7/26/2004  | -          |

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|            |                    |                   |    |     |   |           |            |
|------------|--------------------|-------------------|----|-----|---|-----------|------------|
| 10-0890746 | -                  | 10-2006-7002544   | KR | UTL | Method and System of Controlling a Context Menu   | 7/26/2004 | 3/20/2009  |
| 1321282    | 200519628          | 93123248          | TW | UTL | METHOD AND SYSTEM OF CONTROLLING A CONTEXT MENU AND COMPUTER READABLE MEDIUM FOR RECORDING INSTRUCTIONS RELATED THEREWITH | 8/3/2004  | 3/1/2010   |
| -          | -                  | 60/493,029        | US | PRV | Method and System of Controlling a Context Menu   | 8/5/2003  | -          |
| 7721228    | 2005-0039141-A1    | 10/805,668        | US | UTL | Method and System of Controlling a Context Menu   | 3/18/2004 | 5/18/2010  |
| -          | 2004-017670        | PCT/US2004/024396 | WO | UTL | Method and System of Controlling a Context Menu   | 7/26/2004 | -          |
| 10-0932318 | -                  | 10-2007-7018836   | KR | UTL | Matching and Ranking of Sponsored Search Listings Incorporating Web Search Technology and Web Content                     | 1/18/2006 | 12/8/2009  |
| -          | -                  | 60/645,054        | US | PRV | Matching and Ranking of Sponsored Search Listings Incorporating Web Search Technology and Web Content                     | 1/18/2005 | -          |
| 7698331    | 20070112840        | 11/334,096        | US | UTL | Matching and Ranking of Sponsored Search Listings Incorporating Web Search Technology and Web Content                     | 1/18/2006 | 4/13/2010  |
| -          | WO 2006/078794 A3  | PCT/US2006/001857 | WO | UTL | Learning Retrieval Functions Incorporating Query Differentiation for Information Retrieval                                | 1/18/2006 | -          |
| 8250061    | US-2007-0179949-A1 | 11/343,910        | US | UTL | Learning Retrieval Functions Incorporating Query Differentiation for Information Retrieval                                | 1/30/2006 | 8/21/2012  |
| 8589371    | 2012-0271842 A1    | 13/538,237        | US | UTL | Differentiation for Information Retrieval   | 6/29/2012 | 11/19/2013 |
| 7693805    | US-2008-0034083-A1 | 11/497,909        | US | UTL | Automatic Identification of Event Classification Errors in a Network  | 8/1/2006  | 4/6/2010   |
| 8832097    | US-2007-0208706-A1 | 11/370,246        | US | UTL | Vertical search expansion, disambiguation, and optimization of search queries   | 3/6/2006  | 9/9/2014   |
| 7805441    | US-2007-0208724-A1 | 11/370,258        | US | UTL | Vertical Search Expansion, Disambiguation, and Optimization of Search Queries   | 3/6/2006  | 9/28/2010  |
| 7734629    | 20070255736        | 11/414,442        | US | UTL | System and Method Using Hierarchical Clustering for Evolutionary Clustering of Sequential Data Sets                       | 4/29/2006 | 6/8/2010   |
| 8930365    | 2007-0255737 A1    | 11/414,448        | US | UTL | System and Method for Evolutionary Clustering Of Sequential Data Sets   | 4/29/2006 | 1/6/2015   |
| 8676961    | 20080028067        | 11/495,932        | US | UTL | System and method for web destination profiling   | 7/27/2006 | 3/18/2014  |
| 7676465    | US-2008-0010292-A1 | 11/481,809        | US | UTL | TECHNIQUES FOR CLUSTERING STRUCTURALLY SIMILAR WEB PAGES BASED ON PAGE FEATURES   | 7/5/2006  | 3/9/2010   |
| 8583778    | -                  | 11/412,360        | US | UTL | IDENTIFYING EXCEPTIONAL WEB DOCUMENTS   | 4/26/2006 | 11/12/2013 |
| -          | 1929398            | 7754679           | EP | UTL | Content Display and Navigation Interface  | 3/30/2007 | -          |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 265823     | 13/2009            | 5935/CHENP/2008   | IN | UTL | NAVIGATION INTERFACE FOR DISPLAYING CONTENT CLASSIFIED ACCORDING TO CONTENT PROPERTIES                          | 3/30/2007  | 3/18/2015  |
| 10-1022883 | -                  | 10-2008-7027031   | KR | UTL | Content Display and Navigation Interface  | 3/30/2007  | 3/9/2011   |
| 8055444    | US-2007-0233377-A1 | 11/398,396        | US | UTL | Content Display and Navigation Interface  | 4/4/2006   | 11/8/2011  |
| D624,088   | -                  | 29/299,439        | US | DES | Graphical User Interface For a Display Screen Content Display and Navigation Interface                          | 12/26/2007 | 9/21/2010  |
| -          | WO 2007/114906     | PCT/US2007/008193 | WO | UTL | Human responses and rewards for requests at web scale   | 3/30/2007  | -          |
| -          | 2008-0133346 A1    | 11/607,296        | US | UTL | File Caching  | 11/30/2006 | -          |
| 8538921    | US-2007-0250513-A1 | 11/410,691        | US | UTL | File Caching  | 4/24/2006  | 9/17/2013  |
| -          | WO 2007/127640     | PCT/US2007/66785  | WO | UTL | File Caching  | 4/17/2007  | -          |
| 8176058    | US-2008-0133525    | 11/565,359        | US | UTL | Method and System for Managing Playlists  | 11/30/2006 | 5/8/2012   |
| -          | 2012-0271893 A1    | 13/465,823        | US | UTL | Method and System for Managing Playlists  | 5/7/2012   | -          |
| 8135725    | US-2008-0040313-A1 | 11/503,051        | US | UTL | System And Method For Providing Tag-Based Relevance Recommendations Of Bookmarks In A Bookmark And Tag Database | 8/11/2006  | 3/13/2012  |
| 9104772    | 2012-0158749 A1    | 13/339,635        | US | UTL | System And Method For Providing Tag-Based Relevance Recommendations Of Bookmarks In A Bookmark And Tag Database | 12/29/2011 | 8/11/2015  |
| 8271486    | US-2008-0027914-A1 | 11/495,825        | US | UTL | System And Method For Searching A Bookmark And Tag Database For Relevant Bookmarks                              | 7/28/2006  | 9/18/2012  |
| -          | 2012-0310933 A1    | 13/589,255        | US | UTL | System And Method For Searching A Bookmark And Tag Database For Relevant Bookmarks                              | 8/20/2012  | -          |
| 8224788    | US-2010-0088583-A1 | 12/354,562        | US | UTL | System and method for bookmarking and auto-tagging a content item based on file type                            | 1/15/2009  | 7/17/2012  |
| 7870475    | 20070271498        | 11/435,557        | US | UTL | System And Method For Bookmarking And Tagging A Content Item  | 5/16/2006  | 1/11/2011  |
| 8589782    | 2011-0078766       | 12/960,903        | US | UTL | System And Method For Bookmarking And Tagging A Content Item  | 12/6/2010  | 11/19/2013 |
| -          | -                  | 60/765,888        | US | PRV | Method and System for Presenting Photos on a Website  | 2/6/2006   | -          |
| 8510669    | -                  | 11/432,033        | US | UTL | Method and System for Presenting Photos on a Website  | 5/10/2006  | 8/13/2013  |
| -          | 2014-0047369 A1    | 13/964,746        | US | UTL | Method and System for Presenting Photos on a Website  | 8/12/2013  | -          |
| 7814096    | 20080077614        | 10/864,074        | US | UTL | Query Based Search Engine   | 6/8/2004   | 10/12/2010 |
| -          | 1856634            | 6718073           | EP | UTL | Reputation Based Search   | 1/12/2006  | -          |
| 10-1136197 | -                  | 10-2007-7018543   | KR | UTL | Reputation Based Search   | 1/12/2006  | 4/5/2012   |
| 10-1236600 | -                  | 10-2010-7006067   | KR | UTL | Reputation Based Search   | 1/12/2006  | 2/18/2013  |
| 7406466    | US20060161524-A1   | 11/036,604        | US | UTL | Reputation Based Search   | 1/14/2005  | 7/29/2008  |
| -          | -                  | PCT/US06/00957    | WO | UTL | Reputation Based Search   | 1/12/2006  | -          |
| 7945660    | 20080028064        | 11/493,213        | US | UTL | Time slicing web based advertisements   | 7/26/2006  | 5/17/2011  |
| -          | -                  | 7751435           | DE | UTL | User-Defined Private Maps   | -          | -          |
| -          | -                  | -                 | EP | UTL | User-Defined Private Maps   | 2/22/2007  | -          |
| -          | -                  | -                 | FR | UTL | User-Defined Private Maps   | -          | -          |
| -          | -                  | -                 | GB | UTL | User-Defined Private Maps   | -          | -          |

SCHEDULE OF ASSETS

|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 265759     | WO 2007/100632     | 4984/CHENP/2008   | IN | UTL | User-Defined Private Maps  | 2/22/2007  | 3/23/2015  |
| 10-1058984 | -                  | 10-2008-7023195   | KR | UTL | User-Provided Private Maps   | 2/22/2007  | 8/17/2011  |
| 7450003    | US-2007-0204218-A1 | 11/361,236        | US | UTL | User-Defined Private Maps  | 2/24/2006  | 11/11/2008 |
| -          | WO 2007/100632     | PCT/US2007/004670 | WO | UTL | User-Defined Private Maps  | 2/22/2007  | -          |
| -          | 34/2007            | 1201/DEL/2006     | IN | UTL | Automatic Relevance Checking for Web and Vertical Search Engines   | 5/16/2006  | -          |
| 7558787    | US-2008-0010269-A1 | 11/481,735        | US | UTL | Automatic Relevance Checking for Web and Vertical Search Engines   | 7/5/2006   | 7/7/2009   |
| 7647314    | 20070255689        | 11/414,405        | US | UTL | System And Method For Indexing Web Content Using Click-Through Features                                  | 4/28/2006  | 1/12/2010  |
| -          | -                  | 60/774,924        | US | PRV | System and methods for presenting a broad-based digital marketplace                                      | 2/17/2006  | -          |
| 8103590    | US-2007-0198364-A1 | 11/616,202        | US | UTL | Method and System for Managing Multiple Catalogs of Files on a Network                                   | 12/26/2006 | 1/24/2012  |
| -          | -                  | PCT/US2007/062450 | WO | UTL | Method and System for Managing Pricing Structures and Delivery Channels for Rights in Files on a Network | 2/20/2007  | -          |
| -          | 1929414            | 7757547           | EP | UTL | System and Method for Identifying Related Queries for Languages With Multiple Writing Systems            | 2/27/2007  | -          |
| 10-1098703 | -                  | 10-2008-7023584   | KR | UTL | System and Method for Identifying Related Queries for Languages With Multiple Writing Systems            | 2/27/2007  | 12/19/2011 |
| 7689554    | US-2007-0203894-A1 | 11/365,315        | US | UTL | System and Method for Identifying Related Queries for Languages With Multiple Writing Systems            | 2/28/2006  | 3/30/2010  |
| -          | WO 2007/101194     | PCT/US07/62876    | WO | UTL | System and Method for Identifying Related Queries for Languages With Multiple Writing Systems            | 2/27/2007  | -          |
| 1366770    | 200844776          | 97104281          | TW | UTL | System and method for associative matching   | 2/4/2008   | 6/21/2012  |
| 7685084    | US-2008-0195596-A1 | 11/673,355        | US | UTL | System and method for associative matching   | 2/9/2007   | 3/23/2010  |
| -          | WO 2008/097746     | PCT/US08/52150    | WO | UTL | System and method for associative matching   | 1/28/2008  | -          |
| 8914729    | US-2008-0104521-A1 | 11/590,045        | US | UTL | Methods and systems for providing a customizable guide for navigating a corpus of content                | 10/30/2006 | 12/16/2014 |
| 8793605    | US-2007-0234226-A1 | 11/393,198        | US | UTL | Smart Drag and Drop  | 3/29/2006  | 7/29/2014  |
| -          | -                  | 14/310,589        | US | UTL | Smart drag and drop  | 6/20/2014  | -          |
| 7533130    | 2008-0147731 A1    | 11/612,994        | US | UTL | USER BEHAVIOR REPORTING BASED ON PRE-AGGREGATED ACTIVITY DATA  | 12/19/2006 | 5/12/2009  |
| 8417573    | 20080228587        | 11/717,982        | US | UTL | SPONSORED LISTING RECOMMENDATION ENGINE  | 3/14/2007  | 4/9/2013   |
| -          | 2013-0290099 A1    | 13/847,903        | US | UTL | SPONSORED LISTING RECOMMENDATION ENGINE  | 3/20/2013  | -          |
| 7849027    | 20080097820        | 11/550,709        | US | UTL | AUTOMATED CLUSTERING OF RECORDS, BIASED BY SUPERVISED CLASSIFICATION PROCESSING                          | 10/18/2006 | 12/7/2010  |

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SCHEDULE OF ASSETS

|              |                         |                   |    |     |   |            |            |
|--------------|-------------------------|-------------------|----|-----|---|------------|------------|
| 8051082      | US-2008-0147591-A1      | 11/642,444        | US | UTL | System and Method for Facilitating Interactive Selection of Clusters and Presentation of Related Datasets<br>SYSTEM AND METHOD FOR FACILITATING INTERACTIVE SELECTION AND PRESENTATION OF DATASETS      | 12/19/2006 | 11/1/2011  |
| 7581193      | US-2008-0148168-A1      | 11/640,033        | US | UTL | Dynamic Cluster Visualization   | 12/15/2006 | 8/25/2009  |
| 7599945      | 20080133567             | 11/564,995        | US | UTL | Providing a Limited Use Syndicated Media to Authorized Users  | 11/30/2006 | 10/6/2009  |
| -            | 9270680 2007-0219910 A1 | 11/450,184        | US | UTL | SYSTEM FOR SERVING ADS OVER MOBILE DEVICES  | 6/9/2006   | 2/23/2016  |
| -            | -                       | 60/779,840        | US | PRV |   | 3/6/2006   | -          |
| 7917392      | US-2007-0266014-A1      | 11/830,194        | US | UTL | System for separating mobile search traffic FROM web search traffic using keyword separation System For Creating Separate Data Serving Spaces For Each Mobile Carrier In A Plurality of Mobile Carriers | 7/30/2007  | 3/29/2011  |
| 8660896      | US-2007-0270130-A1      | 11/830,230        | US | UTL | System for providing for a revenue generator to bid exclusively on mobile search traffic  | 7/30/2007  | 2/25/2014  |
| 8996405      | US-2007-0287458-A1      | 11/830,344        | US | UTL | System for providing for a revenue generator to bid individually on mobile search traffic originating from each mobile carrier in a plurality of mobile carriers  | 7/30/2007  | 3/31/2015  |
| 8494906      | US-2007-0288317-A1      | 11/830,406        | US | UTL |   | 7/30/2007  | 7/23/2013  |
| 8185438      | 2011-0093332            | 12/975,041        | US | UTL | System for separating mobile search traffic FROM web search traffic using keyword separation System for Creating Separate Data Serving Spaces for Each Mobile Carrier in a Plurality of Mobile Carriers | 12/21/2010 | 5/22/2012  |
| -            | 2014-0108147 A1         | 14/140,870        | US | UTL | System for Providing for a Revenue Generator to Bid Exclusively on Mobile Search Traffic  | 12/26/2013 | -          |
| -            | 2015-0073905 A1         | 14/540,884        | US | UTL | System for Serving Advertisements Over Mobile Devices   | 11/13/2014 | -          |
| -            | WO 2007/103094 A2       | PCT/US2007/005217 | WO | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/28/2007  | -          |
| 602007027492 | -                       | 7756759           | DE | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/8/2007   | 12/19/2012 |
| 2033123      | 2033123                 | 7756759           | EP | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/8/2007   | 12/19/2012 |
| 2033123      | -                       | 7756759           | FR | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/8/2007   | 12/19/2012 |
| 2033123      | -                       | 7756759           | GB | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/8/2007   | 12/19/2012 |
| -            | 42                      | 587/KOL2006       | IN | UTL | Mobile Interaction Solutions (MINT) for offline and online advertising using mobile short messaging Platform For Managing Mobile Domains And Keyword-Activated Applications                             | 6/14/2006  | -          |
| 10-1188499   | -                       | 10-2008-7032044   | KR | UTL |   | 2/8/2007   | 9/27/2012  |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |             |            |
|------------|--------------------|-------------------|----|-----|---|-------------|------------|
| 8175623    | US-2007-0293247-A1 | 11/468,645        | US | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 8/30/2006   | 5/8/2012   |
| -          | WO 2007/146450     | PCT/US07/61833    | WO | UTL | Platform For Managing Mobile Domains And Keyword-Activated Applications   | 2/8/2007 -  |            |
| 7747083    | 200702244874       | 11/390,001        | US | UTL | System and Method for Good Nearest Neighbor Clustering of Text  | 3/27/2006   | 6/29/2010  |
| 7904435    | US-2007-0214161    | 11/372,878        | US | UTL | System and Method for Resource Lock Acquisition and Reclamation in a Network File System Environment                            | 3/10/2006   | 3/8/2011   |
| 7464293    | US-2007-0214381    | 11/373,040        | US | UTL | System and Method for Automated Recovery After an Error in a Batch Processing System Caused by Malformatted or Unsupported Data | 3/10/2006   | 12/9/2008  |
| 7668838    | US-2007-0233708-A1 | 11/392,092        | US | UTL | Providing Event Information To Third Party Event Applications   | 3/28/2006   | 2/23/2010  |
| 7676449    | US-2007-0260636-A1 | 11/391,933        | US | UTL | CREATING AND VIEWING PRIVATE EVENTS IN AN EVENTS REPOSITORY   | 3/28/2006   | 3/9/2010   |
| 8290980    | US-2008-0065599-A1 | 11/517,971        | US | UTL | GENERATING EVENT DATA DISPLAY CODE AUTOMATICALLY GENERATING USER-CUSTOMIZED NOTIFICATIONS OF CHANGES IN A SOCIAL NETWORK SYSTEM | 9/8/2006    | 10/16/2012 |
| 7844604    | US-2008-0162510-A1 | 11/647,941        | US | UTL | Social Networking For Mobile Devices  | 12/28/2006  | 11/30/2010 |
| 8843560    | US-2007-0255807-A1 | 11/380,874        | US | UTL | Social Networking For Mobile Devices  | 4/28/2006   | 9/23/2014  |
| 8843551    | US-2008-0256170-A1 | 12/140,217        | US | UTL | Determination of user interest from online activity   | 6/16/2008   | 9/23/2014  |
| 267728     | 2007/1126903       | 5798/CHENP/2008   | IN | UTL | A Behavioral Targeting System   | 3/29/2007   | 7/29/2015  |
| 10-1104539 | -                  | 10-2008-7023526   | KR | UTL | Behavioral Targeting System   | 3/29/2007   | 1/3/2012   |
| 8504575    | 2007-0260596 A1    | 11/394,343        | US | UTL | Behavioral Targeting System   | 3/29/2006   | 8/6/2013   |
| -          | 2013-0318024 A1    | 13/953,548        | US | UTL | Behavioral Targeting System   | 7/29/2013 - |            |
| -          | -                  | 15/055,944        | US | UTL | Behavioral Targeting System   | 29-Feb -    |            |
| 7814109    | WO 2007/126903     | PCT/US2007/007701 | WO | UTL | A Behavioral Targeting System   | 3/29/2007 - |            |
| 7809740    | US-2007-0233650-A1 | 11/394,342        | US | UTL | Automatic Categorization of Network Events  | 3/29/2006   | 10/12/2010 |
| 8438170    | US-2007-0239518-A1 | 11/394,374        | US | UTL | A Model for Generating User Profiles in a Behavioral Targeting System   | 3/29/2006   | 10/5/2010  |
| 9105048    | US-2007-0239535-A1 | 11/394,332        | US | UTL | Behavioral Targeting System that Generates User Profiles for Target Objectives  | 3/29/2006   | 5/7/2013   |
| -          | 2013-0238429 A1    | 13/862,919        | US | UTL | Behavioral Targeting System that Generates User Profiles for Target Objectives  | 4/15/2013   | 8/11/2015  |
| -          | 2015-0324430 A1    | 14/802,056        | US | UTL | Behavioral Targeting System that Generates User Profiles for Target Objectives  | 7/17/2015 - |            |
| 7904448    | US 2007/0260624 A1 | 11/394,358        | US | UTL | Incremental Update of Long-Term and Short-Term User Profile Scores in a Behavioral Targeting System                             | 3/29/2006   | 3/8/2011   |
| 7567945    | 2008-0005052       | 11/427,722        | US | UTL | Aggregation-Specific Confidence Intervals for Fact Set Queries  | 6/29/2006   | 7/28/2009  |
| -          | 2008210861 -       | 2008210861 AU     | AU | UTL | ADVERTISEMER REFERRAL BASED ON SOCIAL TIES  | 1/22/2008   | 1/5/2012   |
| -          | 44/2009            | 4918/CHENP/2009   | IN | UTL | ADVERTISEMER REFERRAL BASED ON SOCIAL TIES  | 1/22/2008 - |            |

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|            |                    |           |                 |    |     |   |             |            |
|------------|--------------------|-----------|-----------------|----|-----|---|-------------|------------|
| 10-1254372 | -                  | 200844889 | 10-2009-7018196 | KR | UTL | ADVERTISEMENT REFERRAL BASED ON SOCIAL TIES   | 1/22/2008   | 4/8/2013   |
| 1403968    | 2008-0189174 A1    |           | 97103126        | TW | UTL | Advertisement Referral Based On Social Ties   | 1/28/2008   | 8/1/2013   |
| -          | 2008-0189174 A1    |           | 11/670,013      | US | UTL | Advertisement Referral Based On Social Ties   | 2/1/2007 -  |            |
| -          | 2008/094788        |           | PCT/US08/51681  | WO | UTL | ADVERTISEMENT REFERRAL BASED ON SOCIAL TIES   | 1/22/2008 - |            |
| 7840538    | US-2008-0154877-A1 |           | 11/642,135      | US | UTL | DISCOVERING QUERY INTENT FROM SEARCH QUERIES AND CONCEPT NETWORKS   | 12/20/2006  | 11/23/2010 |
| 8135721    | 2011-0035397       |           | 12/909,354      | US | UTL | Discovering Query Intent from Search Queries and Concept Networks   | 10/21/2010  | 3/13/2012  |
| 8707160    | US-2008-0040301-A1 |           | 11/502,869      | US | UTL | System and Method for Inferring User Interest Based on Analysis of User-Generated Metadata                          | 8/10/2006   | 4/22/2014  |
| -          | EP 1929416         |           | 7783611         | EP | UTL | Search Early Warning  | 5/10/2007 - |            |
| -          | HK1135201          |           | 9112090         | HK | UTL | Search Early Warning  | 5/10/2007 - |            |
| -          | 34/2009            |           | 6868/CHENP/2008 | IN | UTL | Search Early Warning  | 5/10/2007 - |            |
| 10-1106360 | US-2007-0294203-A1 |           | 10-2009-7000838 | KR | UTL | Search Early Warning  | 5/10/2007   | 1/9/2012   |
| 7945563    | WO 2007/149650     |           | 11/424,799      | US | UTL | Search Early Warning  | 6/16/2006   | 5/17/2011  |
| 8655916    | US-2008-0077614-A1 |           | 11/525,486      | US | UTL | Search Early Warning  | 5/10/2007 - |            |
| -          | 2014-0143360 A1    |           | 14/151,549      | US | UTL | System and method for creating user profiles  | 9/22/2006   | 2/18/2014  |
| -          | 2126726            |           | 8732140         | EP | UTL | System and Method for Creating User Profiles  | 1/9/2014 -  |            |
| 10-1134862 | -                  |           | 10-2009-7019589 | KR | UTL | Browser Interpretable Document For Controlling A Plurality Of Media Players And Systems And Methods Related Thereto | 3/13/2008 - |            |
| 1388996    | 200903271          |           | 97109436        | TW | UTL | Browser Interpretable Document For Controlling A Plurality Of Media Players And Systems And Methods Related Thereto | 3/13/2008   | 4/2/2012   |
| -          | 2008-0235588 A1    |           | 11/745,863      | US | UTL | Browser Interpretable document for controlling a plurality of media players and systems and methods related thereto | 3/18/2008   | 3/11/2013  |
| 8756505    | US-2009-0006963-A1 |           | 12/142,994      | US | UTL | Media Player Playlist Creation and Editing Within a Browser Interpretable Document                                  | 5/8/2007 -  |            |
| -          | WO 2008/115763     |           | US2008/056878   | WO | UTL | Browser Interpretable Document For Controlling A Plurality Of Media Players And Systems And Methods Related Thereto | 6/20/2008   | 6/17/2014  |
| 9123048    | 2008-0097863 A1    |           | 11/551,698      | US | UTL | Browser Interpretable Document For Controlling A Plurality Of Media Players And Systems And Methods Related Thereto | 3/13/2008 - |            |
| 7548929    | 20080120072        |           | 11/432,266      | US | UTL | Systems And Methods For Receiving And Sponsoring Media Content  | 10/20/2006  | 9/1/2015   |
| -          | 2008-0004958 A1    |           | 11/478,331      | US | UTL | System and method for Determining Semantically Related Terms (PANAMA)   | 5/11/2006   | 6/16/2009  |
| 8660899    | US 2008/0147480 A1 |           | 11/641,278      | US | UTL | Client side counting verification testing   | 6/29/2006 - |            |
|            |                    |           |                 |    |     | Transferring Behavioral Profile Anonymously Across Domains For Behavioral Targeting                                 | 12/19/2006  | 2/25/2014  |

SCHEDULE OF ASSETS

|         |                    |                   |    |     |  |            |            |
|---------|--------------------|-------------------|----|-----|--|------------|------------|
| 7809735 | 20080091641        | 11/548,640        | US | UTL | INFRASTRUCTURE FOR MORE EFFICIENT PROCESSING TO GENERATE OF AD-HOC REPORTS   | 10/11/2006 | 10/5/2010  |
| 8054756 | 2008-0069081-A1    | 11/523,371        | US | UTL | Path Discovery and Analytics for Network Data  | 9/18/2006  | 11/8/2011  |
| 8775416 | US-2009-0177645A1  | 11/971,745        | US | UTL | Adapting A Context-Independent Relevance Function For Identifying Relevant Search Results                                | 1/9/2008   | 7/8/2014   |
| 7991769 | 20080010251        | 11/483,048        | US | UTL | System and Method for Budgeted Generalization Search in Hierarchies  | 7/7/2006   | 8/2/2011   |
| 7562060 | US-2007-0239642-A1 | 11/394,744        | US | UTL | Large Scale Semi-Supervised Linear Support Vector Machines   | 3/31/2006  | 7/14/2009  |
| 8745183 | 2008-0104256 A1    | 11/588,020        | US | UTL | System and Method for Adaptively Refreshing a Web Page   | 10/26/2006 | 6/3/2014   |
| 7949661 | 20080052263        | 11/510,412        | US | UTL | System and Method for Identifying Web Communities from Seed Sets of Web Pages  | 8/24/2006  | 5/24/2011  |
| 7577644 | US-2008-0091650-A1 | 11/548,548        | US | UTL | Augmented Search With Error Detection and Replacement  | 10/11/2006 | 8/18/2009  |
| 7912831 | 20080082481        | 11/542,079        | US | UTL | System and Method for Characterizing a Web Page Using Multiple Anchor Sets   | 10/3/2006  | 3/22/2011  |
| 7941383 | US- 2009-0164395A1 | 11/962,753        | US | UTL | Maintaining state transition data for a plurality of users, modeling, detecting, and predicting user states and behavior | 12/21/2007 | 5/10/2011  |
| 7921416 | US-2008-0098370-A1 | 11/551,336        | US | UTL | Formal Language and Translator for Parallel Processing of Data   | 10/20/2006 | 4/5/2011   |
| -       | 14/2008            | 2079/DEL/2006     | IN | UTL | DETERMINING LOGICALLY-RELATED SUB-STRINGS OF A STRING  | 9/21/2006  | -          |
| 7747607 | US-2008-0077563-A1 | 11/592,919        | US | UTL | Determining Logically-Related Sub-Strings Of A String  | 11/2/2006  | 6/29/2010  |
| 7805667 | US-2008-0140358-A1 | 11/635,404        | US | UTL | SYSTEM AND METHOD FOR IDENTIFYING TARGET NODE GRAPHS FROM  | 12/6/2006  | 9/28/2010  |
| 7739275 | 20070271270        | 11/437,425        | US | UTL | PREDETERMINED SEED NODE SUBSETS  | 5/19/2006  | 6/15/2010  |
| 8768772 | 20070067331        | 11/273,580        | US | UTL | System and Method for Selecting Advertising in a Evolving Over Time  | 11/14/2005 | 7/1/2014   |
| -       | 2014-0281861 A1    | 14/206,987        | US | UTL | Social Bookmarking System  | 3/12/2014  | -          |
| -       | -                  | PCT/US2007/082375 | WO | UTL | Method And Apparatus For Tagging Data  | 10/24/2007 | -          |
| 7822745 | 2007-0282785 A1    | 11/444,996        | US | UTL | Keyword Set and Target Audience Profile  | 5/31/2006  | 10/26/2010 |
| 7624104 | 2008-0010281 A1    | 11/474,195        | US | UTL | Generalization Techniques  | 6/22/2006  | 11/24/2009 |
| -       | 2010-0023513 A1    | 12/576,679        | US | UTL | User-Sensitive Pagerank  | 10/9/2009  | -          |
| 8533217 | US 2008/0104027-A1 | 11/590,943        | US | UTL | SYSTEM AND METHOD FOR DYNAMICALLY RETRIEVING DATA SPECIFIC TO A REGION OF A LAYER  | 11/1/2006  | 9/10/2013  |
| 8688670 | 2014-0012873-A1    | 14/021,809        | US | UTL | System and Method for Dynamically Retrieving Data Specific to a Region of a Layer  | 9/9/2013   | 4/1/2014   |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 9235597    | 2014-0172838 A1    | 14/188,418        | US | UTL | System and Method for Dynamically Retrieving Data Specific to a Region of a Layer                                     | 2/24/2014  | 1/12/2016  |
| -          | -                  | 14/993,081        | US | UTL | System and Method for Dynamically Retrieving Data Specific to a Region of a Layer                                     | 1/11/2016  | -          |
| -          | 2033455            | 7762146           | EP | UTL | PROVIDING AN ACTIONABLE EVENT IN AN INTERCEPTED TEXT MESSAGE FOR A MOBILE DEVICE BASED ON CUSTOMIZED USER INFORMATION | 5/11/2007  | -          |
| -          | 22/2009            | 15/CHENP/2009     | IN | UTL | Providing An Actionable Event In An Intercepted Text Message For A Mobile Device Based On Customized User Information | 5/11/2007  | -          |
| 10-1022937 | -                  | 10-2008-7032036   | KR | UTL | PROVIDING AN ACTIONABLE EVENT IN AN INTERCEPTED TEXT MESSAGE FOR A MOBILE DEVICE BASED ON CUSTOMIZED USER INFORMATION | 5/11/2007  | 3/9/2011   |
| 8170584    | US-2007-0282954-A1 | 11/422,534        | US | UTL | PROVIDING AN ACTIONABLE EVENT IN AN INTERCEPTED TEXT MESSAGE FOR A MOBILE DEVICE BASED ON CUSTOMIZED USER INFORMATION | 6/6/2006   | 5/1/2012   |
| -          | WO 2007/1465245    | PCT/US2007/068796 | WO | UTL | Structured Match In A Directory Sponsored Search System   | 5/11/2007  | -          |
| 8977605    | 2008-0052275 A1    | 11/511,570        | US | UTL | Context Server for Associating Information Based on Context   | 8/28/2006  | 3/10/2015  |
| 8594702    | US-2008-0126961-A1 | 11/593,869        | US | UTL | Context Server for Associating Information Based on Context   | 11/6/2006  | 11/26/2013 |
| 9251252    | 2014-0089312 A1    | 14/087,503        | US | UTL | Context Server for Associating Information Based on Context   | 11/22/2013 | 2/2/2016   |
| -          | 2007-0256095 A1    | 11/414,684        | US | UTL | System and Method for the Normalization of Advertising Metrics  | 4/27/2006  | -          |
| -          | 2013749            | 7760794           | EP | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 4/18/2007  | -          |
| 266294     | 13/2009            | 6414/CHENP/2008   | IN | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 4/18/2007  | 4/23/2015  |
| 10-0979864 | -                  | 10-2008-7026557   | KR | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 4/18/2007  | 8/27/2010  |
| 7636779    | US-2007-0255831-A1 | 11/380,868        | US | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 4/28/2006  | 12/22/2009 |
| 8005906    | 20080208973        | 12/117,575        | US | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 5/8/2008   | 8/23/2011  |
| -          | WO 2007/127642     | PCT/US07/66816    | WO | UTL | Contextual Mobile Local Search Based On Social Network Vitality Information   | 4/18/2007  | -          |
| -          | 20080103893        | 11/590,044        | US | UTL | System and method for generating forecasted bids for advertisement keywords   | 10/30/2006 | -          |
| -          | 2008-0091524 A1    | 11/580,586        | US | UTL | System and method for advertisement price adjustment utilizing traffic quality data                                   | 10/13/2006 | -          |

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| Asset ID   | Registration No.   | Priority Date     | Country | Class | Description  | Effective Date           | Expiration Date |
|------------|--------------------|-------------------|---------|-------|--|--------------------------|-----------------|
| 7581184    | 20070283290        | 11/437,415        | US      | UTL   | SYSTEM AND METHOD FOR VISUALIZING THE TEMPORAL EVOLUTION OF OBJECT METADATA            | 5/19/2006                | 8/25/2009       |
| 7860862    | US-2008-0104111-A1 | 11/553,783        | US      | UTL   |  | Recommendation Diversity | 10/27/2006      |
| -          | WO 2008/021734     | 6/10/CHENP/2009   | IN      | UTL   | CALENDAR EVENT, NOTIFICATION, AND ALERT BAR EMBEDDED WITHIN MAIL                       | 8/2/2007                 | -               |
| 10-1064404 | -                  | 10-2009-7002503   | KR      | UTL   | Calendar Event, Notification And Alert Bar Embedded Within Mail                        | 8/2/2007                 | 9/5/2011        |
| 8745141    | US-2008-0034047-A1 | 11/500,766        | US      | UTL   | Calendar Event, Notification, and Alert Bar Embedded Within Mail                       | 8/7/2006                 | 6/3/2014        |
| -          | WO2008/021734      | PCT/US07/75027    | WO      | UTL   | CALENDAR EVENT, NOTIFICATION, AND ALERT BAR EMBEDDED WITHIN MAIL                       | 8/2/2007                 | -               |
| -          | 39661              | 778/KOL/2006      | IN      | UTL   | Agent For Identifying Domains With Content Arranged For Display By A Mobile Device     | 8/3/2006                 | -               |
| 8041703    | US-2008-0033998-A1 | 11/564,756        | US      | UTL   | AGENT FOR IDENTIFYING DOMAINS WITH CONTENT ARRANGED FOR DISPLAY BY A MOBILE DEVICE     | 11/29/2006               | 10/18/2011      |
| 9268873    | 2008-0040389 A1    | 11/611,002        | US      | UTL   | LANDING PAGE IDENTIFICATION, TAGGING AND HOST MATCHING FOR A MOBILE APPLICATION        | 12/14/2006               | 2/23/2016       |
| -          | -                  | 60/090,477        | US      | PRV   | Internet Site Searching and Listing Service Based on Monetary Ranking of Site Listings | 6/24/1998                | -               |
| 6078866    | -                  | 09/153,151        | US      | UTL   | INTERNET SITE SEARCHING AND LISTING SERVICE BASED ON MONETARY RANKING OF SITE LISTINGS | 9/14/1998                | 6/20/2000       |
| -          | WO/2000/016218     | PCT/US1999/020486 | WO      | UTL   | INTERNET SITE SEARCHING AND LISTING SERVICE BASED ON MONETARY RANKING OF SITE LISTINGS | 9/10/1999                | -               |
| -          | -                  | 60/137,788        | US      | PRV   | SYSTEM AND METHOD FOR MONITORING USER INTERACTION WITH ELECTRONIC DEVICES              | 6/3/1999                 | -               |
| -          | -                  | 60/139,915        | US      | PRV   | SYSTEM AND METHOD FOR MONITORING USER INTERACTION WITH ELECTRONIC DEVICES              | 6/17/1999                | -               |
| 7523191    | 20070033105        | 09/587,236        | US      | UTL   | System and Method for Monitoring User Interaction with Web Page                        | 6/2/2000                 | 4/21/2009       |
| 7958234    | US-2009-0271514-A1 | 12/397,780        | US      | UTL   | System and Method For Monitoring User Interaction With Web Pages                       | 3/4/2009                 | 6/7/2011        |
| 2003226107 | -                  | 2003226107        | AU      | UTL   | DISPLAYING PAID SEARCH LISTINGS IN PROPORTION TO ADVERTISER SPENDING                   | 3/31/2003                | 11/21/2008      |
| 10-0908756 | -                  | 10-2007-7007092   | KR      | UTL   | DISPLAYING PAID SEARCH LISTINGS IN PROPORTION TO ADVERTISER SPENDING                   | 3/31/2003                | 7/14/2009       |
| -          | -                  | 60/369,460        | US      | PRV   | DISPLAYING PAID SEARCH LISTINGS IN PROPORTION TO ADVERTISER SPENDING                   | 4/1/2002                 | -               |
| 7454409    | US 2003-0220918 A1 | 10/403,823        | US      | UTL   | Displaying Paid Search Listings in Proportion to Advertiser Spending                   | 3/31/2003                | 11/18/2008      |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 8001103    | US-2008-0288356-A1 | 12/184,004        | US | UTL | Displaying Paid Search Listings in Proportion to Advertiser Spending  | 7/31/2008  | 8/16/2011  |
| -          | -                  | US03/09528        | WO | UTL | DISPLAYING PAID SEARCH LISTINGS IN PROPORTION TO ADVERTISER SPENDING DISPLAYING ITEMS USING A REDUCED PRESENTATION                        | 3/31/2003  | -          |
| 7761805    | US-2008-0066017-A1 | 11/519,563        | US | UTL | Wait Timer For Partially Formed Query   | 9/11/2006  | 7/20/2010  |
| 7630970    | US-2008-0126308-A1 | 11/605,763        | US | UTL | Optimization of Targeted Advertisements Based on User Profile Information   | 11/28/2006 | 12/8/2009  |
| 7680786    | US-2008-0104026-A1 | 11/590,354        | US | UTL | Optimization of Targeted Advertisements Based on User Profile Information   | 10/30/2006 | 3/16/2010  |
| 8060520    | US-2010-0169175-A1 | 12/722,420        | US | UTL | Optimization of Targeted Advertisements Based on User Profile Information   | 3/11/2010  | 11/15/2011 |
| -          | WO 2008/054991     | PCT/US07/81565    | WO | UTL | On User Profile Information   | 10/16/2007 | -          |
| -          | -                  | 60/102,191        | US | PRV | Traffic Bypassing In a Network Server   | 9/28/1998  | -          |
| 6687732    | -                  | 09/369,659        | US | UTL | Adaptive Traffic Bypassing In an Intercepting Network Driver  | 8/5/1999   | 2/3/2004   |
| 7707198    | US-2008-0140712-A1 | 11/609,884        | US | UTL | HARVESTING OF MEDIA OBJECTS FROM SEARCHED SITES WITHOUT A USER HAVING TO ENTER THE SITES  | 12/12/2006 | 4/27/2010  |
| 7941416    | 2010-0211645-      | 12/722,504        | US | UTL | Harvesting of Media Objects From Searched Sites Without a User Having to Enter the Sites  | 3/11/2010  | 5/10/2011  |
| -          | -                  | 7871484           | EP | UTL | Methods, Systems and Apparatus for Delivery of Media  | 11/15/2007 | -          |
| -          | 34/2009            | 2826/CHEM/P/2009  | IN | UTL | Methods, Systems and Apparatus for Delivery of Media  | 11/15/2007 | -          |
| 10-1097693 | -                  | 10-2009-7012882   | KR | UTL | Methods, Systems and Apparatus for Delivery of Media  | 11/15/2007 | 12/15/2011 |
| 8402356    | US-2008-0117202-A1 | 11/562,979        | US | UTL | Methods, Systems and Apparatus for Delivery of Media  | 11/22/2006 | 3/19/2013  |
| -          | 2009-0024452 A1    | 12/237,709        | US | UTL | Methods, Systems and Apparatus for Delivery of Media  | 9/25/2008  | -          |
| -          | WO 2008/064071 A2  | PCT/US2007/084807 | WO | UTL | Method and Apparatus for Selecting Advertisements to Serve Using User Profiles, Performance Scores, and Advertisement Revenue Information | 11/15/2007 | -          |
| -          | 2007-0239534 A1    | 11/394,248        | US | UTL | Telepresence Via Wireless Streaming Multicast   | 3/29/2006  | -          |
| -          | 2008-0134235 A1    | 11/566,916        | US | UTL | Predicting Results For Input Data Based On A Model Generated From Clusters  | 12/5/2006  | -          |
| 8386232    | US-2007-0282591-A1 | 11/445,587        | US | UTL | Predicting Results For Input Data Based On A Model Generated From Clusters  | 6/1/2006   | 2/26/2013  |
| -          | 2007/142982 A1     | PCT/US2007/012762 | WO | UTL | Model Generated From Clusters   | 5/30/2007  | -          |
| 8301616    | US-2008-0016034-A1 | 11/486,818        | US | UTL | Search Equalizer  | 7/14/2006  | 10/30/2012 |
| 7664744    | US-2008-0016046-A1 | 11/881,503        | US | UTL | Query Categorizer   | 7/26/2007  | 2/16/2010  |
| 8868539    | 2013-0054555A1     | 13/629,410        | US | UTL | Search Equalizer  | 9/27/2012  | 10/21/2014 |

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|            |                    |                 |    |     |  |            |            |
|------------|--------------------|-----------------|----|-----|--|------------|------------|
| 2001290363 | -                  | 2001290363      | AU | UTL | A method for searching and analysing information in data networks  | 9/11/2001  | 5/19/2006  |
| -          | -                  | P10113882-0     | BR | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | -          |
| 2420382    | -                  | 2420382         | CA | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | 4/19/2011  |
| 60126798   | -                  | 1970363         | DE | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | 2/21/2007  |
| 1325434    | -                  | 1970363         | EP | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | 2/21/2007  |
| 1325434    | -                  | 1970363         | FR | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | 2/21/2007  |
| 1325434    | -                  | 1970363         | GB | UTL | Method for searching and analysing information in data networks  | 9/11/2001  | 2/21/2007  |
| 200456     | -                  | 503/CHENP/2003  | IN | UTL | A Method for searching and analysing information in data networks  | 9/11/2001  | 5/24/2006  |
| 10-0514149 | -                  | 10-2003-7003774 | KR | UTL | System and Method for Enhancing Crawling by Extracting Requests for Webpages in an Information Flow                      | 9/11/2001  | 9/3/2005   |
| 7093012    | US 2002-0032772 A1 | 09/950,883      | US | UTL | Method for searching and analysing information in data networks  | 9/13/2001  | 8/15/2006  |
| -          | -                  | PCT/NO01/00371  | WO | UTL | BRILLIANT QUERY SYSTEM   | 9/11/2001  | -          |
| 6546386    | -                  | 09/703,006      | US | UTL | Targeted e-commerce system   | 10/31/2000 | 4/8/2003   |
| 7702541    | US 2002-0016741 A1 | 09/738,471      | US | UTL | METATAG-BASED DATAMINING   | 12/15/2000 | 4/20/2010  |
| 7464086    | US 2002-0035573 A1 | 09/952,827      | US | UTL | System and Method for Providing Web System Services for Storing Data and Context of Client Applications on the Web       | 9/14/2001  | 12/9/2008  |
| 8041781    | 20080229251        | 11/724,719      | US | UTL | System and Method of Providing Context Information for Client Application Data Stored on the Web                         | 3/16/2007  | 10/18/2011 |
| 8046436    | 20080228806        | 11/724,716      | US | UTL | System and Method of Storing Data and Context of Client Applications on the Web  | 3/16/2007  | 10/25/2011 |
| 8046437    | 20080228807        | 11/724,730      | US | UTL | System and Method of Restoring Data and Context of Client Applications Stored on the Web                                 | 3/16/2007  | 10/25/2011 |
| 8046438    | 20080228837        | 11/724,732      | US | UTL | System and Method of Providing a User Interface for Client Applications to Store Data and Context Information on the Web | 3/16/2007  | 10/25/2011 |
| 7996779    | 20080228806        | 11/724,718      | US | UTL | System and method for automatically organizing bookmarks through the use of tag data                                     | 3/16/2007  | 8/9/2011   |
| 1371696    | 200844772          | 96150648        | TW | UTL | System and method for automatically organizing bookmarks through the use of tag data                                     | 12/27/2007 | 9/1/2012   |
| 8010532    | US-2008-0172399-A1 | 11/624,072      | US | UTL | Method and System for Creating, Serving and Tracking Advertisements  | 1/17/2007  | 8/30/2011  |
| -          | -                  | 60/421,762      | US | PRV |  | 10/28/2002 | -          |

SCHEDULE OF ASSETS

|         |                    |                   |    |     |  |              |            |
|---------|--------------------|-------------------|----|-----|--|--------------|------------|
| 8000999 | US 2004-0117259 A1 | 10/696,295        | US | UTL | Method and System for Creating, Serving and Tracking Advertisements                              | 10/28/2003   | 8/16/2011  |
| -       | WO/2004/040418     | PCT/US2003/034305 | WO | UTL | METHOD AND SYSTEM FOR CREATING, SERVING AND TRACKING ADVERTISEMENTS                              | 10/28/2003 - | 9/29/2009  |
| 7596587 | 2008-0021859 A1    | 11/489,885        | US | UTL | Multi-tiered Storage   | 7/19/2006    | 9/29/2009  |
| -       | -                  | 60/106,002        | US | PRV | BROWSER INTERFACE OVERLAY TECHNOLOGY   | 10/28/1998 - | -          |
| -       | -                  | 09/429,585        | US | UTL | METHOD OF CONTROLLING AN INTERNET BROWSER INTERFACE AND A CONTROLLABLE BROWSER INTERFACE         | 10/28/1999   | 9/12/2006  |
| 7107548 | 2004-0165007 A1    | 60/331,565        | US | PRV | Method and system of facilitating automatic login to a web site using an internet browser        | 11/16/2001 - | -          |
| -       | -                  | 11/322,529        | US | UTL | Method And System Of Facilitating On-Line Shopping Using A Downloadable Toolbar                  | 12/30/2005 - | -          |
| -       | 2006-0106680 A1    | 11/322,469        | US | UTL | Method And System Of Facilitating Automatic Login To A Web Site Using An Internet Browser        | 12/30/2005   | 8/31/2010  |
| 7788603 | -                  | 11/362,237        | US | UTL | Method of controlling an internet browser interface and a controllable browser interface         | 2/24/2006    | 3/9/2010   |
| 7676762 | 2006-0136843 A1    | 11/347,149        | US | UTL | Method Of Controlling An Internet Browser Interface And A Controllable Browser Interface         | 2/2/2006     | 5/4/2010   |
| 7712033 | 2006-0112341 A1    | 09/587,075        | US | UTL | A METHOD AND SYSTEM FOR MANAGING THE RESOURCES OF AN APPLICATION PROGRAM                         | 6/2/2000     | 2/27/2007  |
| 7185333 | -                  | PCT/US99/25332    | WO | UTL | A METHOD OF CONTROLLING AN INTERNET BROWSER INTERFACE AND A CONTROLLABLE BROWSER INTERFACE       | 10/28/1999 - | -          |
| -       | WO 2000/025329     | PCT/US02/34509    | WO | UTL | METHOD AND SYSTEM OF FACILITATING ON-LINE SHOPPING USING AN INTERNET BROWSER                     | 10/28/2002 - | -          |
| -       | 2003/038554        | PCT/US01/16993    | WO | UTL | A METHOD AND SYSTEM FOR MANAGING THE RESOURCES OF AN APPLICATION PROGRAM                         | 5/24/2001 -  | -          |
| -       | -                  | PCT/US02/34510    | WO | UTL | Method and system of facilitating automatic login to a web site using an internet browser        | 10/28/2002 - | -          |
| -       | -                  | 60/139,627        | US | PRV | Referral Management System   | 6/17/1999 -  | -          |
| 6457005 | -                  | 09/474,379        | US | UTL | Method and System for Referral Management  | 12/29/1999   | 9/24/2002  |
| 6317786 | -                  | 09/086,836        | US | UTL | Web Service  | 5/29/1998    | 11/13/2001 |
| 6279001 | -                  | 09/086,874        | US | UTL | Web Service  | 5/29/1998    | 8/21/2001  |
| 7693865 | US-2008-0059508-A1 | 11/514,076        | US | UTL | Techniques For Navigational Query Identification   | 8/30/2006    | 4/6/2010   |
| -       | 14/2008            | 2035/DEL/2006     | IN | UTL | AURAL SKIMMING AND SCROLLING   | 9/15/2006 -  | -          |
| 9087507 | 2008-0086303 A1    | 11/600,346        | US | UTL | Aural Skimming And Scrolling   | 11/15/2006   | 7/21/2015  |
| -       | US-2008-0027798-A1 | 11/492,387        | US | UTL | Serving Advertisements Based on Keywords Related to a Webpage Determined Using External Metadata | 7/25/2006 -  | -          |

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|            |                    |                  |    |     |  |            |            |
|------------|--------------------|------------------|----|-----|--|------------|------------|
| 7974956    | US-2008-0021904-A1 | 11/491,309       | US | UTL | Authenticating A Site While Protecting Against Security Holes By Handling Common Web Server Configurations | 7/21/2006  | 7/5/2011   |
| 8112703    | US-2008-0034279-A1 | 11/491,438       | US | UTL | Aggregate Tag Views Of Website Information Technique For Providing A Reliable Trust Indicator              | 7/21/2006  | 2/7/2012   |
| 8301728    | US-2008-0021981-A1 | 11/491,365       | US | UTL | To A Webpage   | 7/21/2006  | 10/30/2012 |
| 8595370    | 2013-0018737 A1    | 13/625,581       | US | UTL | Providing A Reliable Trust Indicator For Content Confusion Matrix for Classification Systems               | 9/24/2012  | 11/26/2013 |
| 8611675    | 20080154807        | 11/644,172       | US | UTL | System and Method for Tracking Purchases Related to Digital Advertisements                                 | 12/22/2006 | 12/17/2013 |
| -          | US-2008-0103888-A1 | 11/588,047       | US | UTL | Method and Apparatus for Reconstructing a Search Query   | 10/26/2006 | -          |
| 7716201    | US-2008-0040323-A1 | 11/502,202       | US | UTL | Method and Apparatus for Reconstructing A Search Query   | 8/10/2006  | 5/11/2010  |
| 8046347    | 2010-0287149       | 12/765,676       | US | UTL | Search Query   | 4/22/2010  | 10/25/2011 |
| 8209317    | 2012-0030186       | 13/270,933       | US | UTL | Method and Apparatus for Reconstructing A Search Query   | 10/11/2011 | 6/26/2012  |
| 7953775    | US-2008-0109881-A1 | 11/594,520       | US | UTL | SHARING TAGGED DATA ON THE INTERNET  | 11/7/2006  | 5/31/2011  |
| -          | 20080201218        | 11/708,272       | US | UTL | Methods of Dynamically Creating Personalized Internet Advertisements Based on Content                      | 2/20/2007  | -          |
| -          | 2014-0310100 A1    | 14/318,049       | US | UTL | Methods of Dynamically Creating Personalized Internet Advertisements Based on Content                      | 6/27/2014  | -          |
| 8650265    | 20080201220        | 11/708,396       | US | UTL | Methods of Dynamically Creating Personalized Internet Advertisements Based on Advertiser Input             | 2/20/2007  | 2/11/2014  |
| 1451275    | 200917070          | 97125193         | TW | UTL | System And Method To Facilitate Matching of Content to Advertising Information In A Network                | 7/4/2008   | 9/1/2014   |
| -          | -                  | 103125976        | TW | UTL | System and Method to Facilitate Matching of Content to Advertising Information in a Network                | 7/30/2014  | -          |
| 8688521    | US-2009-0024468-A1 | 11/781,147       | US | UTL | System and Method to Facilitate Matching of Content to Advertising Information in a Network                | 7/20/2007  | 4/1/2014   |
| -          | WO 2009/014837     | PCT/US08/67938   | WO | UTL | System and Method to Facilitate Importation of Data Taxonomies within a Network                            | 6/23/2008  | -          |
| 7991806    | US-2009-0024649-A1 | 11/781,183       | US | UTL | System and Method to Facilitate Classification and Storage of Events in a Network                          | 7/20/2007  | 8/2/2011   |
| 8666819    | 2009-0024469 A1    | 11/781,170       | US | UTL | Determining Mobile Content For A Social Network  | 7/20/2007  | 3/4/2014   |
| -          | 2084617            | 7812037          | EP | UTL | Determining Mobile Content For A Social Network Based On Location And Time                                 | 6/6/2007   | -          |
| -          | 34/2009            | 2822/CHE/NP/2009 | IN | UTL | Determining Mobile Content For A Social Network Based On Location And Time                                 | 6/6/2007   | -          |
| 10-1073751 | -                  | 10-2009-7011168  | KR | UTL | Determining Mobile Content For A Social Network Based On Location And Time                                 | 6/6/2007   | 10/7/2011  |
| 7917154    | US-2008-0102856-A1 | 11/555,675       | US | UTL | Determining Mobile Content For A Social Network Based On Location And Time                                 | 11/1/2006  | 3/29/2011  |
| 8108501    | US-2008-0104227-A1 | 11/555,672       | US | UTL | Searching and route mapping based on a social network, location, and time                                  | 11/1/2006  | 1/31/2012  |

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SCHEDULE OF ASSETS

|            |                    |                 |    |     |  |            |            |
|------------|--------------------|-----------------|----|-----|--|------------|------------|
| 8260315    | 2011-0159890       | 13/042,251      | US | UTL | Determining Mobile Content For A Social Network Based On Location And Time   | 3/7/2011   | 9/4/2012   |
| -          | WO 2008/054882     | PCT/US07/70520  | WO | UTL | Determining Mobile Content For A Social Network Based On Location And Time   | 6/6/2007   | -          |
| 8566205    | 2009-0024510       | 11/879,940      | US | UTL | System and method of making markets for a finite subset of orders placed across continuous and countably infinite outcome spaces | 7/18/2007  | 10/22/2013 |
| -          | 2095270            | 7855179         | EP | UTL | Techniques for Including Collection Items in Search Results  | 12/14/2007 | -          |
| -          | 1192339            | 14105437        | HK | UTL | Techniques for Including Collection Items in Search Results  | 12/14/2007 | -          |
| -          | 34/2009            | 3165/CHENP/2009 | IN | UTL | Techniques for Including Collection Items in Search Results  | 12/14/2007 | -          |
| 10-1298334 | -                  | 10-2009-7012474 | KR | UTL | Techniques for Including Collection Items in Search Results  | 12/14/2007 | 8/13/2013  |
| 7958126    | US-2008-0147640-A1 | 11/642,178      | US | UTL | TECHNIQUES FOR INCLUDING COLLECTION ITEMS IN SEARCH RESULTS  | 12/19/2006 | 6/7/2011   |
| -          | 2011-0238675       | 13/154,424      | US | UTL | Techniques For Including Collection Items In Search Results  | 6/6/2011   | -          |
| -          | 2015-0161264 A1    | 14/618,548      | US | UTL | Techniques For Including Collection Items In Search Results  | 2/10/2015  | -          |
| -          | WO 2008/076920     | PCT/US07/87635  | WO | UTL | Techniques for Including Collection Items in Search Results  | 12/14/2007 | -          |
| 7937403    | 2008-0104050-A1    | 11/554,514      | US | UTL | TIME-BASED ANALYSIS OF RELATED KEYWORD SEARCHING   | 10/30/2006 | 5/3/2011   |
| 8171237    | US-2008-0104649-A1 | 11/555,249      | US | UTL | AUTOMATIC ASSOCIATION OF REFERENCE DATA WITH PRIMARY PROCESS DATA BASED ON TIME AND SHARED IDENTIFIER                            | 10/31/2006 | 5/1/2012   |
| 8397037    | 2012-0191755       | 13/437,866      | US | UTL | AUTOMATIC ASSOCIATION OF REFERENCE DATA WITH PRIMARY PROCESS DATA BASED ON TIME AND SHARED IDENTIFIER                            | 4/2/2012   | 3/12/2013  |
| 8621162    | 2013-0151545 A1    | 13/764,518      | US | UTL | AUTOMATIC ASSOCIATION OF REFERENCE DATA WITH PRIMARY PROCESS DATA BASED ON TIME AND SHARED IDENTIFIER                            | 2/11/2013  | 12/31/2013 |
| 7797295    | US-2008-0168048-A1 | 11/650,194      | US | UTL | USER CONTENT FEEDS FROM USER STORAGE DEVICES TO A PUBLIC SEARCH ENGINE   | 1/4/2007   | 9/14/2010  |
| -          | 2008-0141138 A1    | 11/567,335      | US | UTL | APPARATUS AND METHODS FOR PROVIDING A PERSON'S STATUS  | 12/6/2006  | -          |
| 7921092    | US-2008-0133482-A1 | 10/633,762      | US | UTL | Topic-Focused Search Result Summaries  | 12/4/2006  | 4/5/2011   |
| -          | WO 2008/070470     | PCT/US07/085520 | WO | UTL | Topic-Focused Search Result Summaries  | 11/26/2007 | -          |
| 8041303    | US-2008-0146160-A1 | 11/612,339      | US | UTL | AUTO SNIFFING OF CARRIER PERFORMANCE USING REVERSE ROUND TRIP TIME   | 12/18/2006 | 10/18/2011 |
| 7814086    | US-2008-0120072-A1 | 11/600,698      | US | UTL | System and Method for Determining Semantically Related Terms Based on a Sequences of Search Queries                              | 11/16/2006 | 10/12/2010 |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 7552112    | 20080071740        | 11/522,638        | US | UTL | Discovering Associative Intent Queries From Search Web Logs                       | 9/18/2006  | 6/23/2009  |
| 9003296    | 2008-0155425 A1    | 11/613,913        | US | UTL | Browser Renderable Toolbar  | 12/20/2006 | 4/7/2015   |
| 10-1057925 | -                  | 10-2009-7009890   | KR | UTL | Rights Engine   | 11/8/2007  | 8/11/2011  |
| -          | 2008-0114688 A1    | 11/735,395        | US | UTL | Systems and Methods for Providing Bundles of Rights                               | 4/13/2007  | -          |
| -          | WO 2008/060946     | PCT/US2007/084091 | WO | UTL | Rights Engine   | 11/8/2007  | -          |
| 8132151    | US-2008-0021876-A1 | 11/489,738        | US | UTL | Action Tags   | 7/18/2006  | 3/6/2012   |
| 8166058    | US-2008-0162431-A1 | 11/647,938        | US | UTL | IDENTIFYING INTEREST TWINS IN AN ONLINE COMMUNITY                                 | 12/28/2006 | 4/24/2012  |
| -          | 2012-0197922 A1    | 13/443,758        | US | UTL | Asymmetric Identification of Interest Twins in an Online Community                | 4/10/2012  | -          |
| 8046248    | US-2008-0155465-A1 | 11/644,848        | US | UTL | Identifying Items That Have Experienced Recent Interest Bursts                    | 12/21/2006 | 10/25/2011 |
| 8554869    | US-2008-0034059-A1 | 11/498,540        | US | UTL | Providing An Interface To Browse Links Or Redirects To A Particular Webpage       | 8/2/2006   | 10/8/2013  |
| -          | US-2008-0086496-A1 | 11/544,789        | US | UTL | Communal Tagging  | 10/5/2006  | -          |
| 7756687    | 20080201317        | 11/707,733        | US | UTL | RANKING DOCUMENTS   | 2/16/2007  | 7/13/2010  |
| 7958111    | 2010-0256974       | 12/832,009        | US | UTL | Ranking Documents   | 7/7/2010   | 6/7/2011   |
| 2008327678 | -                  | 2008327678        | AU | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | 10/6/2011  |
| -          | 1187711            | 14100676          | HK | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | -          |
| -          | 45/2009            | 49177/CHE/NP/2009 | IN | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | -          |
| 10-1145083 | -                  | 10-2009-7019267   | KR | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | 5/3/2012   |
| 10-1242917 | -                  | 10-2011-7028147   | KR | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | 3/6/2013   |
| 10-1340747 | -                  | 10-2012-7027515   | KR | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | 12/5/2013  |
| 1463337    | 200842624          | 97102683          | TW | UTL | Method And System For Federated Search Implemented Across Multiple Search Engines | 1/24/2008  | 12/1/2014  |
| 7930286    | US-20080201304-A1  | 11/707,684        | US | UTL | Search Engines  | 2/16/2007  | 4/19/2011  |
| -          | WO 2009/0066140    | PCT/IB08/002738   | WO | UTL | Federated Search Implemented Across Multiple Search Engines                       | 2/12/2008  | -          |
| 7685304    | 20080140861        | 11/567,375        | US | UTL | Web Services Multi-Protocol Support   | 12/6/2006  | 3/23/2010  |
| 7523123    | 20080120314        | 11/560,523        | US | UTL | Map-reduce with merge to process multiple relational datasets                     | 11/16/2006 | 4/21/2009  |
| 8190610    | 2008-0086442       | 11/539,090        | US | UTL | Mapreduce For Distributed Database Processing                                     | 10/5/2006  | 5/29/2012  |
| -          | 2008-0103884 A1    | 11/552,812        | US | UTL | Inserting Advertisements Into A Slide Show  | 10/25/2006 | -          |
| -          | 2008-0103899 A1    | 11/747,114        | US | UTL | Inserting advertisements into a ticker  | 5/10/2007  | -          |
| 9037576    | 2009-0049051 A1    | 11/839,674        | US | UTL | Systems And Methods For Providing Media Access Patterns In A Geographic Area      | 8/16/2007  | 5/19/2015  |

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|          |                    |            |    |     |   |            |            |
|----------|--------------------|------------|----|-----|---|------------|------------|
| 8599203  | US-2009-0160859-A1 | 11/961,013 | US | UTL | Systems and Methods for Presenting Visualizations of Media Access Patterns  | 12/20/2007 | 12/3/2013  |
| D586,361 | -                  | 29/305,572 | US | DES | USER INTERFACE FOR A COMPUTER DISPLAY   | 3/24/2008  | 2/10/2009  |
| D586,362 | -                  | 29/305,573 | US | DES | USER INTERFACE FOR A COMPUTER DISPLAY   | 3/24/2008  | 2/10/2009  |
| 8744883  | 20080147575        | 11/642,392 | US | UTL | System and Method for Labeling a Content Item Based on a Posterior Probability Distribution                         | 12/19/2006 | 6/3/2014   |
| 1420378  | -                  | 97105802   | TW | UTL | Method for customizing a user interface   | 2/19/2008  | 12/21/2013 |
| -        | 2015-0039983 A1    | 14/515,572 | US | UTL | System and method for customizing a user interface  | 10/16/2014 | -          |
| 7917489  | 20080228720        | 11/724,637 | US | UTL | Implicit Name Searching   | 3/14/2007  | 3/29/2011  |
| 8015189  | US-2008-0126388-A1 | 11/557,899 | US | UTL | CUSTOMIZABLE CONNECTIONS BETWEEN MEDIA AND META-DATA VIA FEEDS  | 11/8/2006  | 9/6/2011   |
| 8825625  | 20080189247        | 11/670,317 | US | UTL | Method and system for improved categorical searching  | 2/1/2007   | 9/2/2014   |
| 7685119  | US-2008-0154856-A1 | 11/642,207 | US | UTL | SYSTEM AND METHOD FOR QUERY EXPANSION   | 12/20/2006 | 3/23/2010  |
| 1373228  | 200840268          | 97100810   | TW | UTL | Collecting Implicit Information for Determining Context of Event Actions  | 1/9/2008   | 9/21/2012  |
| 8599801  | 2008-0270586       | 11/670,400 | US | UTL | Collecting Implicit Information for Determining Context of Event Actions  | 2/1/2007   | 12/3/2013  |
| 7865206  | 20080235084        | 11/688,749 | US | UTL | EMPLOYING MATCHING OF EVENT CHARACTERISTICS TO SUGGEST ANOTHER CHARACTERISTIC OF AN EVENT                           | 3/20/2007  | 1/4/2011   |
| 8370349  | 20080208812        | 11/712,855 | US | UTL | INSTANT CONTACT SEARCHING AND PRESENTATION BY CATEGORY  | 2/28/2007  | 2/5/2013   |
| 7756845  | 20080162385        | 11/648,323 | US | UTL | System and Method for Learning A Weighted Index To Categorize Objects   | 12/28/2006 | 7/13/2010  |
| 7962465  | US-2008-0098026-A1 | 11/584,403 | US | UTL | Contextual Syndication Platform   | 10/19/2006 | 6/14/2011  |
| 8719096  | 20080154662        | 11/642,433 | US | UTL | System and Method for Generating a Maximum Utility State of Advertisements for Online Advertisement Auctions        | 12/20/2006 | 5/6/2014   |
| 7809705  | 20080195631        | 11/706,025 | US | UTL | System and Method for Determining Web Page Quality Using Collective Inference Based on Local and Global Information | 2/13/2007  | 10/5/2010  |
| 8024280  | US-2008-0154833-A1 | 11/644,288 | US | UTL | Academic Filter   | 12/21/2006 | 9/20/2011  |
| 7668813  | 2008-0040321 A1    | 11/463,978 | US | UTL | Techniques For Searching Future Events  | 8/11/2006  | 2/23/2010  |
| 7617208  | US-2008-0065631-A1 | 11/531,245 | US | UTL | USER QUERY DATA MINING AND RELATED TECHNIQUES   | 9/12/2006  | 11/10/2009 |
| 7739264  | US-2008-0114721-A1 | 11/600,603 | US | UTL | System and method for generating substitutable queries on the basis of one or more features                         | 11/15/2006 | 6/15/2010  |
| 8381130  | US-2008-0126989-A1 | 11/606,647 | US | UTL | Method and user interface tool for navigation through grid of scheduled items                                       | 11/29/2006 | 2/19/2013  |
| 7783660  | US-2008-0086488-A1 | 11/539,040 | US | UTL | System and Method for Enhanced Text Matching  | 10/5/2006  | 8/24/2010  |

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|         |   |                              |          |            |   |                                     |
|---------|---|------------------------------|----------|------------|---|-------------------------------------|
| -       | 2008-0140504 A1                         | 11/609,107                   | US       | UTL        | Systems And Methods For Providing A Relevant Link Destination<br>SYSTEM FOR GENERATING A SMART ADVERTISEMENT BASED ON A DYNAMIC FILE AND A CONFIGURATION FILE | 12/11/2006 -                        |
| 8160925 | US 2008/0140524-A1<br>WO 2008/073549 A1 | 11/638,314<br>PCT/US07/78134 | US<br>WO | UTL<br>UTL | Smart Advertisement Generating System<br>SYSTEMS AND METHODS FOR PROVIDING CROSS-VERTICAL ADVERTISEMENT   | 12/2/2006 4/17/2012<br>9/11/2007 -  |
| -       | US-2008-0133344-A1                      | 11/567,176                   | US       | UTL        | Systems And Methods For Providing Cross-Vertical Profiling And Searching  | 12/5/2006 -                         |
| 7590615 | US-2008-0140711                         | 11/609,294                   | US       | UTL        | Systems And Methods For Providing Cross-Vertical Profiling And Searching  | 12/11/2006 9/15/2009                |
| 7844588 | US-2009-0299826-A1                      | 12/536,188                   | US       | UTL        | Handling Dynamic UrIs In Crawl For Better Coverage Of Unique Content  | 8/5/2009 11/30/2010                 |
| 7827166 | US- 2008-0091685-A1<br>2008-0109422 A1  | 11/580,443<br>11/556,068     | US<br>US | UTL<br>UTL | EVALUATING PERFORMANCE OF BINARY CLASSIFICATION SYSTEMS   | 10/13/2006 11/2/2010<br>11/2/2006 - |
| 8554622 | US-2008-0148106-A1                      | 11/612,004                   | US       | UTL        | Evaluating Performance of Click Fraud Detection Systems   | 12/18/2006 10/8/2013                |
| 8655724 | 2014-0006145 A1                         | 14/018,873                   | US       | UTL        | System and method for optimizing advertisement campaigns according to advertiser specified business objectives  | 9/5/2013 2/18/2014                  |
| -       | US-2008-0097813-A1                      | 11/962,920                   | US       | UTL        |   | 12/21/2007 -                        |
| 7949562 | US-2007-0028263-A1                      | 11/321,729                   | US       | UTL        | System and Method For Optimizing Advertisement Campaigns Using a Limited Budget   | 12/28/2005 5/24/2011                |
| 7630978 | US-2008-0147637-A1                      | 11/639,492                   | US       | UTL        | QUERY REWRITING WITH SPELL CORRECTION SUGGESTIONS USING A GENERATED SET OF QUERY FEATURES   | 12/14/2006 12/8/2009                |
| -       | 200907840                               | 97112792                     | TW       | UTL        | A Method and System for Bidding on Advertisements   | 4/9/2008 -                          |
| -       | US-2008-0114607-A1                      | 11/595,585                   | US       | UTL        | System For Generating Advertisements Based on Search Intent   | 11/9/2006 -                         |
| -       | US-2008-0114672-A1                      | 11/734,294                   | US       | UTL        | Method and System for Bidding on Advertisements   | 4/12/2007 -                         |
| -       | WO 2008/127869                          | PCT/US08/59041               | WO       | UTL        | Method and apparatus for using shortcut sets in performing computer-based searches  | 4/1/2008 -                          |
| 381279  | -                                       | 97134494                     | TW       | UTL        | Open Shortcut Sets for Controlled Environments and Social Groups  | 9/9/2008 1/1/2013                   |
| 7752285 | US-2009-0077200-A1                      | 11/924,863                   | US       | UTL        | Shortcut Sets For Controlled Environments   | 10/26/2007 7/6/2010                 |
| -       | US-2010-0185752-A1                      | 60/973,109<br>12/732,156     | US<br>US | PRV<br>UTL | Shortcut Sets For Controlled Environments   | 9/17/2007 -<br>3/25/2010 10/22/2013 |
| 8694614 | -                                       | 14/056,831                   | US       | UTL        | Shortcut Sets For Controlled Environments<br>SELECTING AND PRESENTING USER SEARCH RESULTS BASED ON AN ENVIRONMENT TAXONOMY                                    | 10/17/2013 4/8/2014                 |
| 7822734 | US-2008-0140637-A1                      | 11/638,057                   | US       | UTL        |   | 12/12/2006 10/26/2010               |

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|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 8341144    | 2011-0071999       | 12/903,345        | US | UTL | Selecting and Presenting User Search Results   | 10/13/2010 | 12/25/2012 |
| 7895175    | US-2008-0114731-A1 | 11/600,345        | US | UTL | Based on User Information<br>Client-Side Federated Search  | 11/15/2006 | 2/22/2011  |
| -          | US-2008-0147617-A1 | 11/642,177        | US | UTL | Providing System Configuration Information To A Search Engine  | 12/19/2006 | -          |
| 8380706    | 2008-0133477-A1    | 11/567,099        | US | UTL | Sponsored Search Coverage Expansion  | 12/5/2006  | 2/19/2013  |
| -          | 2013-0198000 A1    | 13/750,895        | US | UTL | Sponsored search coverage expansion  | 1/25/2013  | -          |
| 7827172    | 20080228750        | 11/724,559        | US | UTL | QUERY-LOG MATCH RELEVANCE FEATURES<br>INCREMENTAL-CLICK ANALYSIS OF<br>KEYWORD SEARCHING                   | 3/14/2007  | 11/2/2010  |
| 7752191    | 20080133497        | 11/567,139        | US | UTL | AUTHENTICATION SEAL FOR ONLINE APPLICATIONS  | 12/5/2006  | 7/6/2010   |
| 8010996    | US-2008-0046968-A1 | 11/627,161        | US | UTL | System and Method for Synchronizing Data   | 1/25/2007  | 8/30/2011  |
| 7900145    | US-2008-0126387 A1 | 11/557,720        | US | UTL | End of Program Pattern Detector  | 11/8/2006  | 3/1/2011   |
| 8045802    | US-2008-0134251-A1 | 11/566,032        | US | UTL | Event-based Display and Methods Therefor   | 12/1/2006  | 10/25/2011 |
| -          | 2008-0072150 A1    | 11/470,583        | US | UTL | Graphical User Interface To Manipulate Syndication Data Feeds  | 9/6/2006   | -          |
| 7680939    | 2008-0155440 A1    | 11/613,960        | US | UTL | Supplemental Display Matching Using Syndication Information  | 12/20/2006 | 3/16/2010  |
| -          | WO 2008/048926     | PCT/US2007/081383 | WO | UTL | Providing Multiple Media Items To A Consumer Via A Simplified Consumer Interaction                         | 10/15/2007 | -          |
| 8356039    | US-2008-0154955-A1 | 11/614,938        | US | UTL | Systems And Methods For Providing Multiple Media Items To A Consumer Via A Simplified Consumer Interaction | 12/21/2006 | 1/15/2013  |
| -          | 2013-0132409 A1    | 13/738,582        | US | UTL | Intervention Processing Of Requests Relative To Syndication Data Feed Items                                | 1/10/2013  | -          |
| 8886707    | 20080147780        | 11/611,648        | US | UTL | MODERATED SYNDICATION DATA FEED  | 12/15/2006 | 11/11/2014 |
| 8224889    | 20080147729        | 11/611,668        | US | UTL | Engine for Processing Content Rules Associated with Locations in a Page                                    | 12/15/2006 | 7/17/2012  |
| 9178793    | -                  | 11/537,444        | US | UTL | Engine for Processing Content Rules Associated with Locations in a Page                                    | 9/29/2006  | 11/3/2015  |
| -          | -                  | 14/929,651        | US | UTL | MANAGING PAGE SIZES FOR A MOBILE DEVICE USING ESTIMATION OF CONTENT CUSTOMIZER TECHNIQUES                  | 11/2/2015  | -          |
| 7996000    | -                  | 11/537,003        | US | UTL |  | 9/29/2006  | 8/9/2011   |
| 8224308    | -                  | 11/537,324        | US | UTL | Mobile Device Catalog Registration Based on User Agents and Customer Snapshots of Capabilities             | 9/29/2006  | 7/17/2012  |
| 8620315    | -                  | 11/536,975        | US | UTL | Multi-tiered anti-abuse registration for a mobile device user  | 9/29/2006  | 12/31/2013 |
| -          | 2074571            | 7784252           | EP | UTL | MOBILE MONETIZATION  | 5/31/2007  | -          |
| -          | -                  | 2105/CHENP/2009   | IN | UTL | MOBILE MONETIZATION  | 5/31/2007  | -          |
| 10-1366426 | -                  | 10-2012-7033652   | KR | UTL | Mobile Monetization  | 5/31/2007  | 2/17/2014  |
| 8521832    | -                  | 11/538,780        | US | UTL | MOBILE MONETIZATION  | 10/4/2006  | 8/27/2013  |
| -          | 2013-0332266 A1    | 13/967,561        | US | UTL | Mobile Monetization  | 8/15/2013  | -          |
| -          | WO 2008/042474     | PCT/US07/70137    | WO | UTL | MOBILE MONETIZATION  | 5/31/2007  | -          |

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|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 8381096    | 20080228906        | 11/686,794        | US | UTL | MANAGING LIST TAILORING FOR A MOBILE DEVICE  | 3/15/2007  | 2/19/2013  |
| 8010087    | 2009-0052359       | 11/894,483        | US | UTL | MOBILE CARRIER CAPABILITY  | 8/20/2007  | 8/30/2011  |
| -          | 2009-0063267 A1    | 11/849,924        | US | UTL | Mobile Intelligence Tasks  | 9/4/2007   | -          |
| 7769786    | 20080147476        | 11/612,788        | US | UTL | Propensity-to-Click Targeting and Modeling   | 12/19/2006 | 8/3/2010   |
| 7996897    | 2009-0187987       | 12/011,114        | US | UTL | Learning Framework for Online Applications   | 1/23/2008  | 8/9/2011   |
| 8635203    | US 2008-0120276-A1 | 11/560,690        | US | UTL | Systems and Methods Using Query Patterns to Disambiguate Query Intent                        | 11/16/2006 | 1/21/2014  |
| -          | US-2008-0235142-A1 | 11/745,847        | US | UTL | System and Methods for Obtaining Rights in Playlist Entries                                  | 5/8/2007   | -          |
| 8713192    | US-2008-0140850-A1 | 11/608,649        | US | UTL | System and Method for Routing Streaming Data Requests  | 12/8/2006  | 4/29/2014  |
| 8108390    | US 2008/0154858-A1 | 11/644,176        | US | UTL | System for Targeting Data to Sites Referenced on a Page                                      | 12/21/2006 | 1/31/2012  |
| -          | 37/2008            | 194/DEL/2007      | IN | UTL | USING ACTIVATION PATHS TO CLUSTER PROXIMITY QUERY RESULTS                                    | 1/31/2007  | -          |
| 7636713    | US-2008-0183695-A1 | 11/729,203        | US | UTL | Using activation paths to cluster proximity query results                                    | 3/27/2007  | 12/22/2009 |
| -          | 31/2008            | 2836/DEL/2006     | IN | UTL | IDENTIFYING OFFENSIVE CONTENT USING USER CLICK DATA  | 12/29/2006 | -          |
| 8280871    | US-2008-0162540-A1 | 11/713,212        | US | UTL | Identifying Offensive Content Using User Click Data  | 3/2/2007   | 10/2/2012  |
| 10-1214713 | -                  | 10-2009-7014984   | KR | UTL | Providing Real Time Information in a Visual Information Unit                                 | 12/17/2007 | 12/14/2012 |
| 10-1301316 | -                  | 10-2012-7009535   | KR | UTL | Providing Real Time Information in a Visual Information Unit                                 | 12/17/2007 | 8/22/2013  |
| 8423603    | US 2008/0270921 A1 | 12/169,578        | US | UTL | Providing Real Time Information in a Visual Information Unit                                 | 7/8/2008   | 4/16/2013  |
| -          | -                  | PCT/US2007/025906 | WO | UTL | Providing Real Time Information in a Visual Information Unit                                 | 12/17/2007 | -          |
| 7877317    | 20080120123        | 11/603,853        | US | UTL | Method and System for Finding Similar Charts for Financial Analysis                          | 11/21/2006 | 1/25/2011  |
| 8065667    | 20080235671        | 11/726,082        | US | UTL | INJECTING CONTENT INTO THIRD PARTY DOCUMENTS FOR DOCUMENT PROCESSING                         | 3/20/2007  | 11/22/2011 |
| 7886042    | US-2008-0147616-A1 | 11/642,176        | US | UTL | Dynamically Constrained, Forward Scheduling Over Uncertain Workloads                         | 12/19/2006 | 2/8/2011   |
| -          | 2015-0032577 A1    | 14/514,515        | US | UTL | System and method for generating revenue for publishers of multimedia content over a network | 10/15/2014 | -          |
| 8005828    | 2009-0198644-A1    | 12/026,376        | US | UTL | Learning Query Rewrite Policies  | 2/5/2008   | 8/23/2011  |
| 7853721    | US-2008-0114897-A1 | 11/595,220        | US | UTL | System and method for transmission of DNS beacons  | 11/9/2006  | 12/14/2010 |
| 8108555    | 2011-0055349       | 12/942,676        | US | UTL | System and method for transmission of DNS beacons  | 11/9/2010  | 1/31/2012  |
| 8458025    | US 2008/0154666-A1 | 11/698,507        | US | UTL | SYSTEM FOR GENERATING SCORES RELATED TO INTERACTIONS WITH A SERVICE PROVIDER PARTNER         | 1/26/2007  | 6/4/2013   |

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|            |                    |                   |    |     |  |              |            |
|------------|--------------------|-------------------|----|-----|--|--------------|------------|
| -          | 2013-0282479 A1    | 13/902,408        | US | UTL | System for Generating Scores Related to Interactions with a Revenue Generator System and method for displaying advertisements in media players | 5/24/2013 -  |            |
| 1366797    | -                  | 97117129          | TW | UTL | Embedded video player advertisement display  | 5/9/2008     | 6/21/2012  |
| -          | US-2008-0281689-A1 | 11/746,414        | US | UTL | Embedded video player advertisement display  | 5/9/2007 -   |            |
| -          | WO 2008-141031     | PCT/US2008/062872 | WO | UTL | Content-embedding code generation in digital media benefit attachment mechanism  | 5/7/2008 -   |            |
| 8965783    | 20080082905        | 11/541,092        | US | UTL | Script-Based Content-Embedding Code Generation in Digital Media Benefit Attachment Mechanism   | 9/29/2006    | 2/24/2015  |
| 8943401    | 20080082904        | 11/540,849        | US | UTL | Digital media benefit attachment mechanism   | 9/29/2006    | 1/27/2015  |
| 8781892    | 20080082405        | 11/529,814        | US | UTL | Digital Media Benefit Attachment System  | 9/29/2006    | 7/15/2014  |
| -          | -                  | 60/848,585        | US | PRV | Methods, Systems and Apparatus for Delivery of Media   | 9/29/2006 -  |            |
| -          | 2084924            | 7864446           | EP | UTL | Methods, Systems and Apparatus for Delivery of Media   | 11/15/2007 - |            |
| -          | 34/2009            | 2824/CHENP/2009   | IN | UTL | Methods, Systems and Apparatus for Delivery of Media   | 11/15/2007 - |            |
| 10-1136686 | -                  | 10-2009-7012865   | KR | UTL | Methods, Systems and Apparatus for Delivery of Media   | 11/15/2007   | 4/6/2012   |
| 10-1312123 | -                  | 10-2011-7028209   | KR | UTL | Method, System and Apparatus for Using User Profile Electronic Device Data in Media Delivery   | 11/15/2007   | 9/17/2013  |
| 9110903    | 2008-0117201 A1    | 11/562,973        | US | UTL | Methods, Systems and Apparatus for Delivery of Media   | 11/15/2007 - |            |
| -          | WO 2008/064065 A1  | PCT/US2007/084797 | WO | UTL | Caller Initiated Communications Interruption   | 11/15/2007 - |            |
| -          | 2008-0205619 A1    | 11/677,977        | US | UTL | Methods and Systems for Pre-Caching Information on a Mobile Computing Device   | 2/22/2007 -  |            |
| 8769099    | US-2008-0162686-A1 | 11/617,451        | US | UTL | Methods and Systems for Pre-Caching Information on a Mobile Computing Device   | 12/28/2006   | 7/1/2014   |
| -          | 2014-0280735 A1    | 14/299,565        | US | UTL | Methods and Systems for Pre-Caching Information on a Mobile Computing Device   | 6/9/2014 -   |            |
| -          | 2008-0120308 A1    | 11/562,976        | US | UTL | Methods, Systems and Apparatus for Delivery of Media   | 11/22/2006 - |            |
| 8117256    | US-2008-0168117-A1 | 11/621,326        | US | UTL | Methods and systems for exploring a corpus of content  | 1/9/2007     | 2/14/2012  |
| 8510377    | 2012-0124130 A1    | 13/356,759        | US | UTL | Methods and systems for exploring a corpus of content  | 1/24/2012    | 8/13/2013  |
| 10-0885772 | -                  | 10-2007-17019     | KR | UTL | METHOD AND SYSTEM FOR REGISTERING AND RETRIEVING PRODUCT INFORMATION   | 2/20/2007    | 2/19/2009  |
| 7620657    | 20080201368        | 11/693,268        | US | UTL | Method and System for Registering and Retrieving Product Information   | 3/29/2007    | 11/17/2009 |
| 7603348    | US-2008-0183685-A1 | 11/698,408        | US | UTL | System For Classifying A Search Query  | 1/26/2007    | 10/13/2009 |
| -          | 2069967            | 8780502           | EP | UTL | System for Scoring Click Traffic   | 4/1/2008 -   |            |
| 10-1166616 | -                  | 10-2009-7019960   | KR | UTL | System for Scoring Click Traffic   | 4/1/2008     | 7/11/2012  |
| -          | 391867 -           | 11/789,729        | TW | UTL | Method for scoring user click and click traffic scoring system thereof   | 4/15/2008    | 4/1/2013   |
| -          | US-2008-0270154-A1 | 97113571          | US | UTL | System for Scoring Click Traffic   | 4/25/2007 -  |            |

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|------------|--------------------|-------------------|-------------------|----|-----|---|-----------------------|
| -          | -                  | -                 | PCT/US08/59015    | WO | UTL | System for Scoring Click Traffic  | 4/1/2008 -            |
| 396991     | 200846963          | 97104165          | 97104165          | TW | UTL | Context Avatar  | 2/4/2008 5/21/2013    |
| 7979067    | 20080201638        | 11/707,789        | 11/707,789        | US | UTL | Context Avatar  | 2/15/2007 7/12/2011   |
| -          | WO 2008/100380     | PCT/US2008/001224 | PCT/US2008/001224 | WO | UTL | Context Avatar  | 1/29/2008 -           |
| 7610277    | US-2008-0243810-A1 | 11/693,448        | 11/693,448        | US | UTL | METHOD AND SYSTEM FOR LAUNCHING A BROWSER   | 3/29/2007 10/27/2009  |
| 8055552    | 20080154739        | 11/615,574        | 11/615,574        | US | UTL | Social Network Commerce Model   | 12/22/2006 11/8/2011  |
| 7647316    | 20080222130        | 11/682,233        | 11/682,233        | US | UTL | LINK OPTIMIZATION   | 3/5/2007 1/12/2010    |
| 10-0987880 | -                  | 10-2008-7019764   | 10-2008-7019764   | KR | UTL | Method, Computer Readable Medium and System for Editing a Low-Resolution Media Asset to Generate a High-Resolution Edited Media Asset | 1/12/2007 10/7/2010   |
| 10-0976887 | -                  | 10-2008-7019765   | 10-2008-7019765   | KR | UTL | Method and System for Creating and Applying Dynamic Media Specification Creator and Applicator  | 1/12/2007 8/12/2010   |
| 10-0987862 | -                  | 10-2008-7019766   | 10-2008-7019766   | KR | UTL | Method and System for Recording Edits to Media Content  | 1/12/2007 10/7/2010   |
| 10-0991583 | -                  | 10-2008-7019762   | 10-2008-7019762   | KR | UTL | Method, Computer-Readable Storage Medium and System for Combining Edit Information with Media Content                                 | 1/12/2007 10/27/2010  |
| -          | -                  | 60/790,569        | 60/790,569        | US | PRV | Online remixing of digital multimedia   | 4/10/2006 -           |
| -          | -                  | 60/758,664        | 60/758,664        | US | PRV | Dynamic media specification creator and applicator  | 1/13/2006 -           |
| 8868465    | US-2009-0106093-A1 | 11/622,962        | 11/622,962        | US | UTL | Method and System for Publishing Media Content  | 1/12/2007 10/21/2014  |
| 8411758    | -                  | 11/622,920        | 11/622,920        | US | UTL | Method and System for Online Remixing of Digital Multimedia   | 1/12/2007 4/2/2013    |
| -          | WO 2007/084871     | PCT/US2007/060525 | PCT/US2007/060525 | WO | UTL | Method and System for Online Remixing of Digital Multimedia   | 1/12/2007 -           |
| -          | WO 2007/084869     | PCT/US2007/060528 | PCT/US2007/060528 | WO | UTL | Method and System for Creating and Applying Dynamic Media Specification Creator and Applicator  | 1/12/2007 -           |
| -          | WO 2007/084870     | PCT/US2007/060530 | PCT/US2007/060530 | WO | UTL | Method and System for Recording Edits to Media Content  | 1/12/2007 -           |
| -          | WO 2007/084871     | PCT/US2007/060531 | PCT/US2007/060531 | WO | UTL | Method and System for Combining Edit Information with Media Content   | 1/12/2007 -           |
| -          | 2007/120696        | PCT/US2007/008917 | PCT/US2007/008917 | WO | UTL | Video Generation Based On Aggregate User Data   | 4/9/2007 -            |
| -          | WO 2008/054505     | PCT/US2007/08916  | PCT/US2007/08916  | WO | UTL | Topic Specific Generation and Editing of Media Assets   | 4/9/2007 -            |
| 9105049    | 2008-0183558 A1    | 11/701,330        | 11/701,330        | US | UTL | System and Method for Automatically Determining an Advertisement Type of a Digital Advertisement                                      | 1/31/2007 8/11/2015   |
| -          | HK1138655          | 10104153          | 10104153          | HK | UTL | Dynamic Pricing Models for Digital Content  | 12/18/2007 -          |
| -          | 32/2009            | 4219/CHENP/2009   | 4219/CHENP/2009   | IN | UTL | Dynamic Pricing Models for Digital Content  | 12/18/2007 -          |
| 10-1084841 | -                  | 10-2009-7015297   | 10-2009-7015297   | KR | UTL | Dynamic Pricing Models for Digital Content  | 12/18/2007 11/11/2011 |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 9076148    | 2008-0154798 A1    | 11/615,602        | US | UTL | Dynamic Pricing Models for Digital Content                                    | 12/22/2006 | 7/7/2015   |
| -          | -                  | PCT/US2007/087938 | WO | UTL | Dynamic Pricing Models for Digital Content                                    | 12/18/2007 | -          |
| 7698329    | US-2008-0168053-A1 | 11/652,356        | US | UTL | Method For Improving Quality Of Search Results                                | 1/10/2007  | 4/13/2010  |
| 8510813    | 20080148377        | 11/611,327        | US | UTL | By Avoiding Indexing Sections Of Pages  | 12/15/2006 | 8/13/2013  |
| 7974880    | US-2008-0183675-A1 | 11/701,275        | US | UTL | Management of Network Login Identities  | 1/31/2007  | 7/5/2011   |
| -          | EP2095319          | 7865376           | EP | UTL | System for Updating Advertisement Bids  | 12/7/2007  | -          |
| -          | -                  | 3424/CHENP/2009   | IN | UTL | BID OPTIMIZATION IN SEARCH ENGINE   | 12/7/2007  | -          |
| 10-1413347 | -                  | 10-2011-7028735   | KR | UTL | MARKETING   | 12/7/2007  | -          |
| 8712832    | 20080140489        | 11/609,782        | US | UTL | BID Optimization in Search Engine Marketing                                   | 12/7/2007  | 6/23/2014  |
| -          | 2014-0249914 A1    | 14/201,514        | US | UTL | Bid optimization in search engine marketing                                   | 12/12/2006 | 4/29/2014  |
| -          | WO 2008/073821     | PCT/US2007/086775 | WO | UTL | Bid optimization in search engine marketing                                   | 3/7/2014   | -          |
| 8386310    | 20080235089        | 11/726,005        | US | UTL | BID OPTIMIZATION IN SEARCH ENGINE   | 12/7/2007  | -          |
| -          | 2008-0235089 A1    | 11/752,741        | US | UTL | MARKETING   | 5/23/2007  | -          |
| -          | 2008-0249855 A1    | 11/732,688        | US | UTL | System for generating advertising creatives                                   | 4/4/2007   | -          |
| 8190572    | 20080201390        | 11/675,368        | US | UTL | HIGH-AVAILABILITY AND DATA PROTECTION   | 2/15/2007  | 5/29/2012  |
| 8050693    | US-2008-0242323-A1 | 11/695,340        | US | UTL | OF OLTP DATABASES   | 4/2/2007   | 11/1/2011  |
| 7779133    | 20080168177        | 11/619,849        | US | UTL | Employing the SMS Protocol as a Transport Layer Protocol                      | 1/4/2007   | 8/17/2010  |
| 7805450    | US 2008/0243783-A1 | 11/729,104        | US | UTL | Estimation of Web Client Response Time  | 3/28/2007  | 9/28/2010  |
| 8185538    | US-2010-0281011    | 12/834,659        | US | UTL | SYSTEM FOR DETERMINING THE  | 7/12/2010  | 5/22/2012  |
| 8601008    | 2012-0221548 A1    | 13/460,188        | US | UTL | GEOGRAPHIC RANGE OF LOCAL INTENT IN A SEARCH QUERY                            | 4/30/2012  | 12/3/2013  |
| 9262439    | 2014-0089286 A1    | 14/094,309        | US | UTL | System for Determining the Geographic Range of Local Intent in a Search Query | 12/2/2013  | 2/16/2016  |
| -          | -                  | 15/043,051        | US | UTL | System for Determining Local Intent in a Search Query                         | 2/12/2016  | -          |
| 7788252    | US 2008/0243611-A1 | 11/729,096        | US | UTL | SYSTEM FOR DETERMINING LOCAL INTENT IN A SEARCH QUERY                         | 3/28/2007  | 8/31/2010  |
| 7752314    | 20080288640        | 11/748,837        | US | UTL | AUTOMATED TAGGING OF SYNDICATION DATA FEEDS                                   | 5/15/2007  | 7/6/2010   |
| 7822755    | 20080222284        | 11/714,502        | US | UTL | Methods of Processing and Segmenting Web Usage Information                    | 3/6/2007   | 10/26/2010 |
| -          | 2095324            | 7869445           | EP | UTL | Link Retrofitting of Digital Media Objects                                    | 12/18/2007 | -          |
| -          | 33/2009            | 4218/CHENP/2009   | IN | UTL | Link Retrofitting of Digital Media Objects                                    | 12/18/2007 | -          |
| -          | 2008-0154951 A1    | 11/615,654        | US | UTL | Link Retrofitting of Digital Media Objects                                    | 12/22/2006 | -          |

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|         |                    |                   |    |     |   |                       |
|---------|--------------------|-------------------|----|-----|---|-----------------------|
| -       | -                  | PCT/US2007/087948 | WO | UTL | Link Retrofitting of Digital Media Objects<br>METHOD AND APPARATUS FOR<br>DISCOVERING AND CLASSIFYING<br>POLYSEMIOUS WORD INSTANCES IN WEB<br>DOCUMENTS | 12/18/2007 -          |
| 7957957 | US-2009-0157390 A1 | 11/957,190        | US | UTL | Method And Apparatus For Discovering And<br>Classifying Polysemous Word Instances In Web<br>Documents   | 12/14/2007 6/7/2011   |
| 8135715 | US-2009-0157647-A1 | 11/957,234        | US | UTL | Method And Apparatus For Discovering And<br>Classifying Polysemous Word Instances In Web<br>Documents   | 12/14/2007 3/13/2012  |
| 7917496 | US-2009-0157648-A1 | 11/957,272        | US | UTL | Word Pluralization Handling In Query for Web<br>Search  | 12/14/2007 3/29/2011  |
| 7996410 | 20080189262        | 11/701,736        | US | UTL | System and method for enabling parallel access to<br>serially compressed files  | 2/1/2007 8/9/2011     |
| 7756817 | -                  | 11/773,663        | US | UTL | EXTRACTION OF LOGICAL EVENTS FROM<br>NETWORK DATA   | 7/5/2007 7/13/2010    |
| 7849051 | 20080195636        | 11/673,880        | US | UTL | Navigation Using A Search Engine And Phonetic<br>Voice Recognition  | 2/12/2007 12/7/2010   |
| 8380512 | 2009-0228277-A1    | 12/045,365        | US | UTL | Efficient Estimation Of Events With Rare<br>Occurrence Rates Using Taxonomies   | 3/10/2008 2/19/2013   |
| 7680746 | US-2008-0294577-A1 | 11/752,871        | US | UTL | Detection of abnormal user click activity in a<br>search results page   | 5/23/2007 3/16/2010   |
| 7860870 | 2008-0301090       | 11/755,972        | US | UTL | METHOD AND SYSTEM FOR TIME-SLICED<br>AGGREGATION OF DATA  | 5/31/2007 12/28/2010  |
| 7840523 | 20080222653        | 11/684,479        | US | UTL | System for storing event data using a sum<br>calculator that sums the cubes and squares of<br>events  | 3/9/2007 11/23/2010   |
| 7908239 | 2011-0029990       | 12/906,683        | US | UTL | Methods And Systems For Merging Data Sets   | 10/18/2010 3/15/2011  |
| 8108411 | 20090077078        | 11/855,358        | US | UTL | Methods And Systems For Merging Data Sets   | 9/14/2007 1/31/2012   |
| -       | 2012-0131022 A1    | 13/361,000        | US | UTL | Methods of Processing and Segmenting Web<br>Usage Information   | 1/30/2012 -           |
| -       | 2008-0294495 A1    | 11/752,831        | US | UTL | System and method for identifying advertisements<br>responsive to historical user queries   | 5/23/2007 -           |
| 7644098 | -                  | 11/739,318        | US | UTL | Television Audience Targeting Online  | 4/24/2007 1/5/2010    |
| -       | 2013-0104159 A1    | 13/446,971        | US | UTL | CLUSTERED QUERY SUPPORT FOR A<br>DATABASE QUERY ENGINE  | 4/13/2012 -           |
| -       | -                  | 60/870,368        | US | PRV | CLUSTERED QUERY SUPPORT FOR A<br>DATABASE QUERY ENGINE  | 12/15/2006 -          |
| 7844608 | US-2008-0147627-A1 | 11/615,899        | US | UTL | System and method for extrapolating data from a<br>sample set   | 12/22/2006 11/30/2010 |
| 8150849 | US-2008-0256018-A1 | 11/734,544        | US | UTL | TRAFFIC PRODUCTION INDEX AND RELATED<br>METRICS FOR ANALYSIS OF A NETWORK OF<br>RELATED WEB SITES   | 4/12/2007 4/3/2012    |
| 7885942 | 20080235622        | 11/689,343        | US | UTL |   | 3/21/2007 2/8/2011    |

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|              |                    |  |                   |    |     |   |           |           |
|--------------|--------------------|--|-------------------|----|-----|---|-----------|-----------|
| 602005038333 | -                  |  | 5752601           | DE | UTL | A METHOD AND A COMMUNICATION PLATFORM FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER IN A FIRST NETWORK AND A RADIO COMMUNICATION DEVICE IN A SECOND NETWORK | 6/15/2005 | 2/27/2013 |
| 1766861      | 1766861            |  | 5752601           | EP | UTL | A METHOD AND A COMMUNICATION PLATFORM FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER IN A FIRST NETWORK AND A RADIO COMMUNICATION DEVICE IN A SECOND NETWORK | 6/15/2005 | 2/27/2013 |
| 1766861      | -                  |  | 5752601           | FR | UTL | A METHOD AND A COMMUNICATION PLATFORM FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER IN A FIRST NETWORK AND A RADIO COMMUNICATION DEVICE IN A SECOND NETWORK | 6/15/2005 | 2/27/2013 |
| 1766861      | -                  |  | 5752601           | GB | UTL | A METHOD AND A COMMUNICATION PLATFORM FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER IN A FIRST NETWORK AND A RADIO COMMUNICATION DEVICE IN A SECOND NETWORK | 6/15/2005 | 2/27/2013 |
| 7848233      | US 2010-0135199 A1 |  | 11/571,391        | US | UTL | A METHOD AND A COMMUNICATION PLATFORM FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER IN A FIRST NETWORK AND A RADIO COMMUNICATION DEVICE IN A SECOND NETWORK | 9/13/2007 | 12/7/2010 |
| 8477664      | 2011-0058508       |  | 12/881,114        | US | UTL | COMMUNICATION PLATFORM AND METHOD FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER AND A RADIO COMMUNICATION DEVICE  | 9/13/2010 | 7/2/2013  |
| -            | WO2006/004488      |  | PCT/SE2005/000921 | WO | UTL | Communication Platform  | 6/15/2005 | -         |
| 1766862      | -                  |  | 5752674           | DE | UTL | Communication platform and method for packet communication between a service provider and a radio communication device  | 6/15/2005 | 3/27/2013 |
| 1766862      | 1766862            |  | 5752674           | EP | UTL | Communication platform and method for packet communication between a service provider and a radio communication device  | 6/15/2005 | 3/27/2013 |
| 1766862      | -                  |  | 5752674           | FR | UTL | Communication platform and method for packet communication between a service provider and a radio communication device  | 6/15/2005 | 3/27/2013 |
| 1766862      | -                  |  | 5752674           | GB | UTL | Communication platform and method for packet communication between a service provider and a radio communication device  | 6/15/2005 | 3/27/2013 |
| SE 528 406   | SE528406           |  | SE0401684-6       | SE | UTL | Communication Platform  | 6/30/2004 | 11/7/2006 |

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|            |                    |                   |    |     |  |              |            |
|------------|--------------------|-------------------|----|-----|--|--------------|------------|
| 8009610    | US-2008-0045203-A1 | 11/571,396        | US | UTL | COMMUNICATION PLATFORM AND METHOD FOR PACKET COMMUNICATION BETWEEN A SERVICE PROVIDER AND A RADIO COMMUNICATION DEVICE | 9/6/2007     | 8/30/2011  |
| -          | WO2006/004487      | PCT/SE2005/000920 | WO | UTL | Communication Platform   | 6/15/2005 -  |            |
| 381324     | -                  | 97120895          | TW | UTL | Granular Data for Behavioral Targeting   | 6/5/2008     | 1/1/2013   |
| 7921069    | US-2009-0006363-A1 | 11/770,413        | US | UTL | Granular Data for Behavioral Targeting Using Predictive Models   | 6/28/2007    | 4/5/2011   |
| 8364627    | 2011-0131160       | 13/018,303        | US | UTL | Method and System for Generating a Linear Machine Learning Model for Predicting Online User Input Actions              | 1/31/2011    | 1/29/2013  |
| -          | 2014-0200999 A1    | 13/739,400        | US | UTL | Granular Data for Behavioral Targeting   | 1/11/2013 -  |            |
| -          | WO 2009/005905     | PCT/US08/64268    | WO | UTL | Granular Data for Behavioral Targeting DISCOVERING AND DETERMINING CHARACTERISTICS OF NETWORK PROXIES                  | 5/20/2008 -  |            |
| 7702772    | 20080209028        | 11/678,030        | US | UTL | System and method for scenario based content delivery  | 2/22/2007    | 4/20/2010  |
| 8266167    | US-2008-0256462-A1 | 11/733,576        | US | UTL | Method And System For Wirelessly Accessing A Network   | 4/10/2007    | 9/11/2012  |
| -          | 2009-0048915 A1    | 11/837,853        | US | UTL | Method for Organizing Structurally Similar Web Pages from a Web Site   | 8/13/2007 -  |            |
| 7941420    | US-2009-0049062-A1 | 11/838,351        | US | UTL | Stateless Gateways Having Remote Dialog Store TRACKING USER CLICKS USING AJAX BASED BEACONS                            | 8/14/2007    | 5/10/2011  |
| 8301782    | 20080212766        | 11/713,330        | US | UTL | Enabling searching of user ratings and reviews using user profile location, and social networks                        | 3/2/2007     | 10/30/2012 |
| -          | 2008-0270412       | 11/741,010        | US | UTL | LANDMARK IDENTIFICATION  | 4/27/2007 -  |            |
| 7895177    | 2009-0006533       | 11/754,855        | US | UTL | Method and System For Media-Based Event Generation   | 5/29/2007    | 2/22/2011  |
| 7908556    | US-2008-0313570-A1 | 11/763,391        | US | UTL | Method and System For Media-Based Event Generation   | 6/14/2007    | 3/15/2011  |
| 1386060    | -                  | 97119975          | TW | UTL | Method and System For Media-Based Event Generation   | 5/30/2008    | 2/11/2013  |
| -          | 2008-0313227 A1    | 11/763,383        | US | UTL | Method and System For Media-Based Event Generation   | 6/14/2007 -  |            |
| -          | WO 2008/156953     | PCT/US2008/064325 | WO | UTL | Point of Presence Distribution Mechanism for Digital Content Objects   | 5/21/2008 -  |            |
| -          | 2132701            | 8744500           | EP | UTL | Point Of Presence Distribution Mechanism For Digital Content Objects   | 3/27/2008 -  |            |
| 10-1312144 | -                  | 10-2012-7007974   | KR | UTL | Point of Presence Distribution Mechanism for Digital Content Objects   | 3/27/2008    | 9/17/2013  |
| 1488049    | 200903265          | 97108480          | TW | UTL | Point of Presence Distribution Mechanism for Digital Content Objects   | 3/11/2008    | 6/11/2015  |
| -          | 2008-0244038 A1    | 11/694,638        | US | UTL | Point of Presence Distribution Mechanism for Digital Content Objects   | 3/30/2007 -  |            |
| -          | -                  | PCT/US2008/058502 | WO | UTL | Method and System for Unauthorized Content Detection and Reporting   | 3/27/2008 -  |            |
| -          | -                  | 3655/CHENP/2009   | IN | UTL |  | 12/17/2007 - |            |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 10-1196097 | -                  | 10-2009-7012770   | KR | UTL | Method and System for Unauthorized Content Detection and Reporting   | 12/17/2007 | 10/24/2012 |
| -          | 2008-0155701 A1    | 11/615,673        | US | UTL | Method and System for Unauthorized Content Detection and Reporting   | 12/22/2006 | -          |
| -          | WO 2008/079768     | PCT/US2007/087750 | WO | UTL | Detection and Reporting  | 12/17/2007 | -          |
| 7904062    | 20080220747        | 11/683,912        | US | UTL | Scrolling mobile advertisements  | 3/8/2007   | 3/8/2011   |
| 8799249    | US-2008-0306998-A1 | 11/760,583        | US | UTL | METHOD AND SYSTEM FOR RENDERING A COLLECTION OF MEDIA ITEMS  | 6/8/2007   | 8/5/2014   |
| -          | 2008-0288342 A1    | 11/748,305        | US | UTL | SYSTEM AND METHOD FOR DISPLAYING ADVERTISEMENTS USING A TOOLBAR  | 5/14/2007  | -          |
| -          | 2008266286 -       | 2008266286 AU     | AU | UTL | Mobile Contextual SMS Advertising  | 6/10/2008  | 3/8/2012   |
| -          | 2174278            | 8770565 EP        | EP | UTL | Mobile Contextual SMS Advertising  | 6/10/2008  | -          |
| -          | 29/2010            | 228/CHENP/2010    | IN | UTL | Mobile Contextual SMS Advertising Device, media and method for mobile contextual sms advertising               | 6/10/2008  | -          |
| 1420409    | 200917145          | 97121992          | TW | UTL | Mobile Contextual SMS Advertising  | 6/12/2008  | 12/21/2013 |
| -          | 2008-0311934 A1    | 11/763,320        | US | UTL | Mobile Contextual SMS Advertising  | 6/14/2007  | -          |
| -          | WO 2008/157127     | PCT/US08/66397    | WO | UTL | ESTIMATING THE DATE RELEVANCE OF A QUERY FROM QUERY LOGS   | 6/10/2008  | -          |
| 7966341    | US-2009-0043748-A1 | 11/834,616        | US | UTL | Calculating Cognitive Efficiency Score For Navigational Interfaces Based On Eye Tracking Data                  | 8/6/2007   | 6/21/2011  |
| 8108800    | US-2009-0024964-A1 | 11/778,378        | US | UTL | MONETIZING LOW VALUE CLICKERS  | 7/16/2007  | 1/31/2012  |
| -          | 2008-0249854 A1    | 11/697,452        | US | UTL | ATTRIBUTE EXTRACTION USING LIMITED TRAINING DATA   | 4/6/2007   | -          |
| 7689527    | US-20080243905 A1  | 11/731,136        | US | UTL | System for Serving Data that Matches Content Related to a Search Results Page                                  | 3/30/2007  | 3/30/2010  |
| -          | 2008-0270359 A1    | 11/789,779        | US | UTL | TEMPORAL TARGETING OF ADVERTISEMENTS   | 4/25/2007  | -          |
| 7672937    | US 2008-0255935-A1 | 11/786,238        | US | UTL | INTERACTIVE USER INTERFACE FOR COLLECTING AND PROCESSING NOMENCLATURE AND PLACEMENT METRICS FOR WEBSITE DESIGN | 4/11/2007  | 3/2/2010   |
| 8126766    | US-2008-0126175-A1 | 11/606,520        | US | UTL | System and Method for Detecting a Web Page Template  | 11/29/2006 | 2/28/2012  |
| 7987417    | 2008-0275901       | 11/800,236        | US | UTL | GEOGRAPHICALLY DISTRIBUTED REAL TIME COMMUNICATIONS PLATFORM   | 5/4/2007   | 7/26/2011  |
| 8850035    | -                  | 11/804,232        | US | UTL | System and Method For Knowledge Based Search System  | 5/16/2007  | 9/30/2014  |
| 7788284    | -                  | 11/768,273        | US | UTL | DETERMINING QUALITY MEASURES FOR WEB OBJECTS BASED ON SEARCHER BEHAVIOR  | 6/26/2007  | 8/31/2010  |
| 8290986    | US-2009-0006357-A1 | 11/769,641        | US | UTL |  | 6/27/2007  | 10/16/2012 |

SCHEDULE OF ASSETS

|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 10-0996327 | -                  | 10-2008-0024319 | KR | UTL | Method of Registering Advertisements on an Electronic Map at an Advertisement Registration Server and Displaying the Advertisement on a User Terminal | 3/17/2008  | 11/17/2010 |
| 10-1024149 | -                  | 10-2008-0089873 | KR | UTL | METHOD OF REGISTERING ADVERTISEMENTS ON AN ELECTRONIC MAP USING ADVERTISEMENT REGISTRATION REFERENCE INFORMATION                                      | 9/11/2008  | 3/15/2011  |
| -          | 2009-0234736       | 12/106,489      | US | UTL | Method of Registering Advertisements on an Electronic Map   | 4/21/2008  | -          |
| 10-1121280 | -                  | 10-2009-7026817 | KR | UTL | Dynamic Layout for Search Engine Results Page Based on Implicit User Feedback   | 5/30/2008  | 2/21/2012  |
| 8015502    | US-2009-0295006-A1 | 11/752,001      | US | UTL | DYNAMIC LAYOUT FOR A SEARCH ENGINE RESULTS PAGE BASED ON IMPLICIT USER FEEDBACK   | 5/22/2007  | 9/6/2011   |
| 8683379    | 2011-0289079       | 13/193,362      | US | UTL | Dynamic layout for a search engine results page based on implicit user feedback   | 7/28/2011  | 3/25/2014  |
| -          | WO/2008/147685     | PCT/US08/63535  | WO | UTL | Dynamic Layout for Search Engine Results Page Based on Implicit User Feedback   | 5/30/2008  | -          |
| 10-1077739 | -                  | 10-2009-7013753 | KR | UTL | User Initiated Invite For Automatic Conference Participation By Invitee   | 11/26/2007 | 10/21/2011 |
| -          | -                  | 60/868,321      | US | PRV | USER INITIATED INVITATION THAT INCLUDES A LINK TO AUTOMATICALLY PARTICIPATE IN A CONVERSATION OR SERVICE  | 12/1/2006  | -          |
| 8081958    | US-2008-0132215-A1 | 11/944,248      | US | UTL | USER INITIATED INVITE FOR AUTOMATIC CONFERENCE PARTICIPATION BY INVITEE   | 11/21/2007 | 12/20/2011 |
| 8396461    | 2012-0066326       | 13/297,153      | US | UTL | User Initiated Invite for Automatic Conference Participation by Invitee   | 11/15/2011 | 3/12/2013  |
| -          | WO 2008/070471 A2  | PCT/US07/85524  | WO | UTL | User Initiated Invite For Automatic Conference Participation By Invitee   | 11/26/2007 | -          |
| -          | -                  | 60/868,529      | US | PRV | PERSONALIZED SOCIAL DISTRIBUTIONS OF CONTENT FOR MOBILE DEVICES   | 12/4/2006  | -          |
| -          | 2008-0134052 A1    | 11/866,601      | US | UTL | Bootstrapping Social Networks Using Augmented Peer to Peer Distributions of Social Networking Services  | 10/3/2007  | -          |
| 8224696    | 20070244749        | 11/405,209      | US | UTL | Automated Reward Management for Network Based Contests  | 4/17/2006  | 7/17/2012  |
| -          | 2008-0249852 A1    | 11/696,152      | US | UTL | Systems and Methods for Creating Advertisements   | 4/3/2007   | -          |
| 7836407    | US-2008-0276193-A1 | 11/799,567      | US | UTL | Smart Fields  | 5/2/2007   | 11/16/2010 |
| 8621383    | 2010-0281314       | 12/834,836      | US | UTL | Smart Fields  | 7/12/2010  | 12/31/2013 |
| 10-0996311 | -                  | 10-2007-0097401 | KR | UTL | Method and System for Detecting Spam User Created Content(UCC)  | 9/27/2007  | 11/17/2010 |
| 8095547    | 2009-0089279-A1    | 11/966,388      | US | UTL | Method and Apparatus for Detecting Spam User Created Content  | 12/28/2007 | 1/10/2012  |

SCHEDULE OF ASSETS

|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 8887185    | 2009-0019467-A1    | 11/873,150      | US | UTL | Method and System for Providing Virtual Co-Presence to Broadcast Audiences in an Online Broadcasting System | 10/16/2007 | 11/11/2014 |
| -          | 2015-0052540 A1    | 14/531,053      | US | UTL | Broadcasting System   | 11/3/2014  | -          |
| -          | 2008-0235589 A1    | 11/687,940      | US | UTL | Identifying Popular Segments Of Media Objects   | 3/19/2007  | -          |
| 2007342252 | -                  | 2007342252      | AU | UTL | Clustered Search Processing   | 12/10/2007 | 6/2/2011   |
| -          | 2118778            | 7871669         | EP | UTL | Clustered Search Processing   | 12/10/2007 | -          |
| -          | 45/2009            | 4570/CHENP/2009 | IN | UTL | Clustered Search Processing   | 12/10/2007 | -          |
| 10-1208799 | -                  | 10-2009-7016294 | KR | UTL | Clustered Search Processing   | 12/10/2007 | 11/29/2012 |
| 10-1296053 | -                  | 10-2012-7011298 | KR | UTL | Clustered Search Processing   | 12/10/2007 | 8/6/2013   |
| 10-1377799 | -                  | 10-2013-7016005 | KR | UTL | Clustered Search Processing   | 12/10/2007 | 3/18/2014  |
| 1359366    | 200836079          | 96148389        | TW | UTL | CLUSTERED SEARCH PROCESSING   | 12/18/2007 | 3/1/2012   |
| 7630972    | 2008-0168052       | 11/651,102      | US | UTL | CLUSTERED SEARCH PROCESSING   | 1/5/2007   | 12/8/2009  |
| 8145637    | -                  | 12/609,865      | US | UTL | Clustered Search Processing   | 10/30/2009 | 3/27/2012  |
| 8326841    | 20120102044        | 13/271,198      | US | UTL | Clustered Search Processing   | 10/11/2011 | 12/4/2012  |
| -          | WO 2008/085637     | PCT/US07/86990  | WO | UTL | Clustered Search Processing   | 12/10/2007 | -          |
| 7769716    | 20080243949        | 11/691,922      | US | UTL | Divided Backup Of Data Warehouse  | 3/27/2007  | 8/3/2010   |
| 7827184    | US-2008-0256050-A1 | 11/733,585      | US | UTL | System and method for modeling user selection feedback in a search result page                              | 4/10/2007  | 11/2/2010  |
| 7698410    | 2008-0267207-A1    | 11/741,301      | US | UTL | CONTEXT-SENSITIVE, SELF-ADJUSTING TARGETING MODELS  | 4/27/2007  | 4/13/2010  |
| 2008307247 | -                  | 2008307247      | AU | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | 5/24/2012  |
| 2012202541 | -                  | 2012202541      | AU | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | 11/21/2013 |
| -          | EP2193463          | 8835740         | EP | UTL | System and method for inclusion of interactive elements on a search results page                            | 9/18/2008  | -          |
| -          | 43/2010            | 2479/CHENP/2010 | IN | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | -          |
| 10-1175858 | -                  | 10-2010-7008974 | KR | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | 8/14/2012  |
| 10-1475126 | -                  | 10-2012-7010038 | KR | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | 12/15/2014 |
| 1420331    | -                  | 97135779        | TW | UTL | System and method for inclusion of interactive elements on a search results page                            | 9/18/2008  | 12/21/2013 |
| 9268856    | 2009-0089312       | 11/863,384      | US | UTL | System and method for inclusion of interactive elements on a search results page                            | 9/28/2007  | 2/23/2016  |
| -          | -                  | PCT/US08/76808  | WO | UTL | System and method of inclusion of interactive elements on a search results page                             | 9/18/2008  | -          |
| 8108379    | US-2009-0089267-A1 | 11/863,397      | US | UTL | System and method for editing history in a search results page  | 9/28/2007  | 1/31/2012  |
| 8140508    | US-2009-0089245-A1 | 11/863,388      | US | UTL | System and method for contextual commands in a search results page  | 9/28/2007  | 3/20/2012  |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 9223895    | 2009-0089652 A1    | 11/863,355        | US | UTL | SYSTEM AND METHOD FOR CONTEXTUAL COMMANDS IN A SEARCH RESULTS PAGE            | 9/28/2007  | 12/29/2015 |
| 8850358    | US-2009-0089415-A1 | 11/863,427        | US | UTL | System and method for keyboard navigation in a search results page            | 9/28/2007  | 9/30/2014  |
| 7747792    | -                  | 11/764,549        | US | UTL | Relative typing waiting time before submit or disambiguation aids             | 6/18/2007  | 6/29/2010  |
| 7882111    | US-2008-0301118-A1 | 11/757,296        | US | UTL | User Interactive Precision Targeting Principle                                | 6/1/2007   | 2/1/2011   |
| 8412608    | 20080235121        | 11/687,775        | US | UTL | CURRENCY SYSTEM TO REWARD CONSTRUCTIVE BEHAVIOR                               | 3/19/2007  | 4/2/2013   |
| 10-1097632 | -                  | 10-2009-7018364   | KR | UTL | Dynamic Bid Pricing for Sponsored Search                                      | 3/7/2008   | 12/15/2011 |
| 1432980    | 200907717          | 97109294          | TW | UTL | Dynamic Bid Pricing for Sponsored Search                                      | 3/17/2008  | 4/1/2014   |
| 7856433    | US-2008-0249991-A1 | 11/784,481        | US | UTL | DYNAMIC BID PRICING FOR SPONSORED SEARCH                                      | 4/6/2007   | 12/21/2010 |
| 7933899    | 2011-0055018-      | 12/898,387        | US | UTL | Dynamic Bid Pricing for Sponsored Search                                      | 10/5/2010  | 4/26/2011  |
| -          | WO 2008/124232 A1  | PCT/US2008/056159 | WO | UTL | Dynamic Bid Pricing for Sponsored Search                                      | 3/7/2008   | -          |
| 7359952    | US 2004-0088363 A1 | 10/647,832        | US | UTL | Content Delivery Frequency Capping Method                                     | 8/25/2003  | 4/15/2008  |
| 8418244    | US-2008-0271137-A1 | 11/741,278        | US | UTL | INSTANT COMMUNICATION WITH TLS VPN TUNNEL MANAGEMENT                          | 4/27/2007  | 4/9/2013   |
| 1462046    | -                  | 97113927          | TW | UTL | System for Displaying Advertisements Associated with Search Results           | 4/17/2008  | 11/21/2014 |
| -          | 2008-0270228       | 11/739,242        | US | UTL | System For Displaying Advertisements Associated With Search Results           | 4/24/2007  | -          |
| -          | WO 2008/134218 A1  | PCT/US2008/059865 | WO | UTL | System for Displaying Advertisements Associated with Search Results           | 4/10/2008  | -          |
| 6976019    | -                  | 10/126,320        | US | UTL | Phonetic self-improving search engine   | 4/19/2002  | 12/13/2005 |
| 7716235    | -                  | 11/282,429        | US | UTL | Phonetic self-improving search engine   | 11/18/2005 | 5/11/2010  |
| 8060075    | US-2008-0242281-A1 | 11/695,520        | US | UTL | MOBILE ADDRESSABILITY WITH MAPPING OF PHONE NUMBERS TO DYNAMIC IP ADDRESSES   | 4/2/2007   | 11/15/2011 |
| 1397858    | 200937286          | 97141210          | TW | UTL | Method and computer readable medium for multimedia enhanced browser interface | 10/27/2008 | 6/1/2013   |
| 7899808    | US-2009-0112874-A1 | 11/925,186        | US | UTL | Text Enhancement Mechanism  | 10/26/2007 | 3/1/2011   |
| -          | WO 2009/055689 A2  | PCT/US2008/081140 | WO | UTL | Text Enhancement Mechanism  | 10/24/2008 | -          |
| -          | WO 2009/055692 A2  | PCT/US2008/081144 | WO | UTL | Multimedia Enhanced Browser Interface   | 10/24/2008 | -          |
| 7698317    | -                  | 11/788,505        | US | UTL | Techniques For Detecting Duplicate Web Pages                                  | 4/20/2007  | 4/13/2010  |
| 8290929    | US-2009-0112839-A1 | 11/925,280        | US | UTL | Media Enhancement Mechanism Using Embed Code                                  | 10/26/2007 | 10/16/2012 |
| -          | 2013-0103796 A1    | 13/651,898        | US | UTL | Media Enhancement Mechanism   | 10/15/2012 | -          |
| -          | -                  | 2012200799        | AU | UTL | In-Page Installer   | 3/13/2008  | -          |
| -          | 2126743            | 8732148           | EP | UTL | In-Page Installer   | 3/13/2008  | -          |
| -          | 21/2010            | 4919/CHENP/2009   | IN | UTL | In-Page Installer   | 3/13/2008  | -          |
| 10-1134849 | -                  | 10-2009-7019600   | KR | UTL | In-Page Installer   | 3/13/2008  | 4/2/2012   |
| 1402751    | -                  | 97109434          | TW | UTL | In-Page Installer   | 3/18/2008  | 7/21/2013  |
| 8065675    | 20080235680        | 11/689,469        | US | UTL | In-Page Installer   | 3/21/2007  | 11/22/2011 |
| -          | WO 2008/115764     | PCT/US2008/056885 | WO | UTL | In-Page Installer   | 3/13/2008  | -          |
| 8849855    | 2008-0288454       | 11/804,123        | US | UTL | Context-directed search   | 5/16/2007  | 9/30/2014  |

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|            |                     |                 |    |     |   |            |            |
|------------|---------------------|-----------------|----|-----|---|------------|------------|
| 1399652    | 200925894           | 97129233        | TW | UTL | Systems and Methods for Comments Aggregation and Carryover in World Pages                           | 8/1/2008   | 6/21/2013  |
| 8972458    | US-2009-0043814-A1  | 11/836,723      | US | UTL | Systems and methods for comments aggregation and carryover in word pages                            | 8/9/2007   | 3/3/2015   |
| -          | WO 2009/023129      | PCT/US08/09511  | WO | UTL | Systems and Methods for Comments Aggregation and Carryover in World Pages                           | 8/8/2008   | -          |
| 8595183    | US-2009-0043754-A1  | 11/836,721      | US | UTL | Systems And Methods For Providing Enhanced Content Portability In A World Page Module               | 8/9/2007   | 11/26/2013 |
| -          | 2009-0043737 A1     | 11/836,719      | US | UTL | Systems and Methods for Providing A Multi-Function Search Box for Creating World Pages              | 8/9/2007   | -          |
| 7930645    | US-2009-0044142-A1  | 11/836,717      | US | UTL | SYSTEMS AND METHODS FOR PROVIDING A PERSISTENT NAVIGATION BAR IN A WORD PAGE                        | 8/9/2007   | 4/19/2011  |
| 8001001    | 2009-0063377        | 11/897,787      | US | UTL | System and Method Using Sampling for Allocating Web Page Placements in Online Publishing of Content | 8/30/2007  | 8/16/2011  |
| 7844605    | US-2008-0263025-A1  | 11/738,195      | US | UTL | Use of Natural Search Click Events to Augment Online Campaigns                                      | 4/20/2007  | 11/30/2010 |
| 8712844    | US-2008-0281700-A1  | 11/801,024      | US | UTL | Use of Natural Query Events to Improve Online Advertising Campaigns                                 | 5/8/2007   | 4/29/2014  |
| -          | 2014-0229282 A1     | 14/256,577      | US | UTL | Use of Natural Query Events to Improve Online Advertising Campaigns                                 | 4/18/2014  | -          |
| 7899815    | US-2008-0275882-A1  | 11/743,623      | US | UTL | APPARATUS AND METHODS FOR PROVIDING SEARCH BENCHMARKS   | 5/2/2007   | 3/1/2011   |
| 8881052    | 20080235602         | 11/689,477      | US | UTL | Methods and Systems for Managing Widgets Through A Widget Dock User Interface                       | 3/21/2007  | 11/4/2014  |
| 7921073    | US-2008-0250033-A1  | 11/696,944      | US | UTL | System and method for determining an event occurrence rate  | 4/5/2007   | 4/5/2011   |
| 7818320    | US-2008-0301089-A1  | 11/755,835      | US | UTL | Enhanced search results based on user feedback relating to a search result abstracts                | 5/31/2007  | 10/19/2010 |
| 8046681    | US- 2008-0072140-A1 | 11/945,749      | US | UTL | Techniques For Inducing High Quality Structural Templates For Electronic Documents                  | 11/27/2007 | 10/25/2011 |
| 7685141    | US-2009-0027392-A1  | 11/781,685      | US | UTL | CONNECTION SUB-GRAPHS IN ENTITY RELATIONSHIP GRAPHS   | 7/23/2007  | 3/23/2010  |
| 7692536    | -                   | 11/770,584      | US | UTL | System and Method of Generating Recommendations Using an RFID-Enabled Recommendation System         | 6/28/2007  | 4/6/2010   |
| 10-1144999 | -                   | 10-2010-7004575 | KR | UTL | Textual and Visual Interactive Advertisements in Videos   | 7/18/2008  | 5/3/2012   |
| 1498835    | 200923816           | 97128173        | TW | UTL | SYSTEMS AND METHODS OF PROVIDING TEXTUAL AND VISUAL INTERACTIVE ADVERTISEMENTS IN VIDEOS            | 7/24/2008  | 9/1/2015   |
| -          | 2009-0037263 A1     | 11/830,171      | US | UTL | System for the insertion and control of advertisements in video                                     | 7/30/2007  | -          |
| -          | US-2009-0037262-A1  | 11/830,164      | US | UTL | System for Contextual Matching of Videos with Advertisements  | 7/30/2007  | -          |

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SCHEDULE OF ASSETS

|         |                    |                   |    |     |   |                       |
|---------|--------------------|-------------------|----|-----|---|-----------------------|
| -       | WO 2009/017983 A2  | PCT/US08/70408    | WO | UTL | Textual and Visual Interactive Advertisements in Videos   | 7/18/2008 -           |
| 7707127 | US-2008-0270333-A1 | 11/742,062        | US | UTL | SYSTEM AND METHOD FOR DETERMINING SEMANTICALLY RELATED TERMS USING AN ACTIVE LEARNING FRAMEWORK                                   | 4/30/2007 4/27/2010   |
| 8275722 | US-2010-0169249-A1 | 12/721,358        | US | UTL | SYSTEM AND METHOD FOR DETERMINING SEMANTICALLY RELATED TERMS USING AN ACTIVE LEARNING FRAMEWORK                                   | 3/10/2010 9/25/2012   |
| 7899804 | 2009-0063536       | 11/847,848        | US | UTL | Automatic Extraction of Semantics from User-Specified Tags  | 8/30/2007 3/1/2011    |
| 8060491 | 2011-0125761       | 13/014,874        | US | UTL | Automatic extraction of semantics from text information   | 1/27/2011 11/15/2011  |
| 7512666 | -                  | 09/837,505        | US | UTL | Global Network of Web Card Systems and Method Thereof   | 4/18/2001 3/31/2009   |
| -       | WO/2002084521      | PCT/CN2002/000267 | WO | UTL | Global Network of Web Card Systems and Method Thereof   | 4/18/2002 -           |
| -       | US-2009-0089141-A1 | 11/863,187        | US | UTL | Methods for Cross-Market Brand Advertising, Content Metric Analysis, and Placement Recommendations                                | 9/27/2007 -           |
| 8290982 | US-2009-0089310-A1 | 11/863,204        | US | UTL | Methods for Managing Content for Brand Related Media  | 9/27/2007 10/16/2012  |
| 7747602 | 2009-0037454-A1    | 11/831,770        | US | UTL | Comment Faces   | 7/31/2007 6/29/2010   |
| -       | US 2009-0083098 A1 | 11/903,669        | US | UTL | System and Method for an Online Auction with Optimal Reserve Price  | 9/24/2007 -           |
| 7836000 | 2009-0150309       | 12/001,932        | US | UTL | System and Method for Training a Multi-class Support Vector Machine to Select a Common Subset of Features for Classifying Objects | 12/10/2007 11/16/2010 |
| 8001117 | 20080288480        | 11/750,871        | US | UTL | Efficient Online Computation Of Diverse Query Results   | 5/18/2007 8/16/2011   |
| 7974976 | US-2008-0114759-A1 | 11/750,512        | US | UTL | Deriving User Intent From A User Query  | 5/18/2007 7/5/2011    |
| 7865397 | US-2008-0313030-A1 | 11/762,502        | US | UTL | Category-based Advertisement  | 6/13/2007 1/4/2010    |
| 8881186 | 2009-0019486       | 11/777,187        | US | UTL | Method And System For Improved Media Distribution   | 7/12/2007 11/4/2014   |
| -       | 2015-0012925 A1    | 14/330,556        | US | UTL | Method and System for Improved Media Distribution   | 7/14/2014 -           |
| 8010394 | US-2009-0138301-A1 | 11/946,660        | US | UTL | System and Method to Facilitate Inventory Yearly Forecasting for Network-Based Entities   | 11/28/2007 8/30/2011  |
| 8353008 | 2009-0288142       | 12/123,351        | US | UTL | Authentication Detection  | 5/19/2008 1/8/2013    |
| 7685078 | US-2008-0301069-A1 | 11/755,134        | US | UTL | System and method for learning balanced relevance functions from expert and user judgments  | 5/30/2007 3/23/2010   |
| 8037424 | US-2008-0295008-A1 | 11/753,527        | US | UTL | Visual Browsing System and Method   | 5/24/2007 10/11/2011  |
| 9046985 | 2012-0030629 A1    | 13/268,219        | US | UTL | Visual Browsing System and Method   | 10/7/2011 6/2/2015    |
| -       | 2009-0006192 A1    | 11/771,223        | US | UTL | Point of Presence Sponsorship Mechanism for Digital Content Objects   | 6/29/2007 -           |
| -       | 2009-0138330 A1    | 11/946,498        | US | UTL | Time-Varying Media Object Sponsorship   | 11/28/2007 -          |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 1490708    | 200937233          | 97138766          | TW | UTL | Playlist Resolver  | 10/8/2008  | 7/1/2015   |
| 8959085    | 2009-0100062-A1    | 11/869,926        | US | UTL | Playlist Resolver  | 10/10/2007 | 2/17/2015  |
| -          | 2015-016119 A1     | 14/621,546        | US | UTL | Playlist Resolver  | 2/13/2015  | -          |
| -          | WO 2009/048923 A2  | PCT/US2008/079159 | WO | UTL | Playlist Resolver  | 10/8/2008  | -          |
| 1477991    | 200941255          | 97138764          | TW | UTL | Method to facilitate access to media object and memory for storing index of media object   | 10/8/2008  | 3/21/2015  |
| 8145727    | 2009-100151-A1     | 11/869,887        | US | UTL | Network Accessible Media Object Index  | 10/10/2007 | 3/27/2012  |
| -          | WO 2009/048919 A2  | PCT/US2008/079154 | WO | UTL | Network Accessible Media Object Index  | 10/8/2008  | -          |
| -          | 200910242          | 97116723          | TW | UTL | Media with embedded advertising  | 5/7/2008   | -          |
| -          | 2008-0281685       | 11/745,248        | US | UTL | Media with Embedded Advertising and Network Services (MEANS)   | 5/7/2007   | -          |
| -          | WO 2008/136846 A1  | PCT/US07/80038    | WO | UTL | Media with Embedded Network Services   | 10/1/2007  | -          |
| -          | WO 2008/136847 A1  | PCT/US07/80040    | WO | UTL | Controlled Targeted Experimentation  | 10/1/2007  | -          |
| -          | 2009-0063250 A1    | 11/849,962        | US | UTL | Targeting Using Historical Data  | 9/4/2007   | -          |
| -          | 2009-0063268 A1    | 11/849,986        | US | UTL | Targeting Using Historical Data  | 9/4/2007   | -          |
| -          | -                  | 15/063,154        | US | UTL | VISUAL INTERFACE TO INDICATE CUSTOM BINNING OF ITEMS   | 3/7/2016   | -          |
| 7756900    | 2008-0294595 A1    | 11/752,048        | US | UTL | Interactive Aggregation of Data on a Scatter Plot METHOD AND SYSTEM FOR CREATING A BULLETIN BOARD SYSTEM (BBS) MESSAGE INCLUDING A MAP THROUGH A COMMUNICATION NETWORK | 5/22/2007  | 7/13/2010  |
| 8122056    | 20080288445        | 11/804,196        | US | UTL | Method and System for Creating a Bulletin Board System (BBS) Message Including a Map Through a Communication Network   | 5/17/2007  | 2/21/2012  |
| 10-1391009 | -                  | 10-2010-0094213   | KR | UTL | Exporting Aggregated and Un-Aggregated Data System and Method for Online Advertising Optimized by User Segmentation  | 8/20/2007  | 4/24/2014  |
| 8621043    | 2009/0055509-A1    | 11/875,568        | US | UTL | Estimating Backend Processing Time For Retrieving And Processing Data And Displaying Appropriate Supplemental Content  | 10/19/2007 | 12/31/2013 |
| 7739229    | 20080294671        | 11/752,036        | US | UTL | Dynamic Headline Switcher  | 5/22/2007  | 6/15/2010  |
| -          | 2009-0112690 A1    | 11/978,792        | US | UTL | Real-Time Search Term Popularity Determination, By Search Origin Geographic Location   | 10/29/2007 | -          |
| -          | 2009-0049211 A1    | 11/838,807        | US | UTL | Real-Time Search Term Popularity Determination, By Search Origin Geographic Location   | 8/14/2007  | -          |
| 8275760    | US-2009-0006325-A1 | 11/770,296        | US | UTL | Real-Time Search Term Popularity Determination, By Search Origin Geographic Location   | 6/28/2007  | 9/25/2012  |
| 7428522    | -                  | 11/862,967        | US | UTL | Real-Time Search Term Popularity Determination, By Search Origin Geographic Location   | 9/27/2007  | 9/23/2008  |
| -          | 2009-0089280 A1    | 12/189,723        | US | UTL | System and Method for Learning a Network of Categories Using Prediction  | 8/11/2008  | -          |
| 7877335    | 2009-0106022       | 11/975,483        | US | UTL | SYSTEM FOR GENERATING QUERY SUGGESTIONS USING A NETWORK OF USERS AND ADVERTISERS   | 10/18/2007 | 1/25/2011  |
| 7921107    | US 2008-0256059-A1 | 11/830,679        | US | UTL | SYSTEM FOR GENERATING QUERY SUGGESTIONS USING A NETWORK OF USERS AND ADVERTISERS   | 7/30/2007  | 4/5/2011   |

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|                   |                    |                        |          |            |  |            |            |
|-------------------|--------------------|------------------------|----------|------------|--|------------|------------|
| 7849080           | US-2008-0256061-A1 | 1/1830,753             | US       | UTL        | System for Generating Query Suggestions by Integrating Valuable Query Suggestions with Experimental Query Suggestions Using a Network of Users and Advertisers | 7/30/2007  | 12/7/2010  |
| 8458599           | US-2008-0282169-A1 | 11/801,203             | US       | UTL        | MULTI-USER INTERACTIVE WEB-BASED SEARCHES  | 5/8/2007   | 6/4/2013   |
| 8621367           | 2013-0246387A1     | 13/871,136             | US       | UTL        | Multi-User Interactive Web-Based Searches PREDICTIVE STEMMING FOR WEB SEARCH WITH STATISTICAL MACHINE TRANSLATION MODELS                                       | 4/26/2013  | 12/31/2013 |
| 7788276           | US-2009-0055380-A1 | 11/843,560             | US       | UTL        | A Distributed Collaborative Knowledge Generation System  | 8/22/2007  | 8/31/2010  |
| 1478079           | 200912774          | 97110696<br>60/920,679 | TW<br>US | UTL<br>PRV | A Distributed Collaborative Knowledge Generation System  | 3/26/2008  | 3/21/2015  |
| 7885913           | US-2008-0243727-A1 | 11/932,562             | US       | UTL        | A Distributed Collaborative Knowledge Generation System  | 10/31/2007 | 2/8/2011   |
| 9171258           | 2011-0125757 A1    | 13/021,290             | US       | UTL        | Distributed Collaborative Knowledge Generation System  | 2/4/2011   | 10/27/2015 |
| -                 | -                  | -                      | WO       | UTL        | A Distributed Collaborative Knowledge Generation System  | 3/24/2008  | -          |
| 2008260481        | -                  | 2008260481             | AU       | UTL        | Cold Row Encapsulation for Server Farm Cooling System  | 3/27/2008  | 2/17/2011  |
| 2679469           | -                  | 2679469                | CA       | UTL        | Cold Row Encapsulation for Server Farm Cooling System  | 3/27/2008  | 9/24/2013  |
| 2156268           | -                  | 8744501                | CH       | UTL        | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM  | 3/27/2008  | 2/15/2012  |
| -                 | -                  | -                      | CN       | UTL        | Secure Service For Receiving Sensitive Information Through Nested I-Frames   | -          | -          |
| 101681187         | -                  | 200880018851           | CN       | UTL        | Cold Row Encapsulation for Server Farm Cooling System  | 3/27/2008  | 12/5/2012  |
| ZL 200880118545.5 | 101884041A         | 200880118546           | CN       | UTL        | Enabling Searching On Abbreviated Search Terms Via Messaging   | 10/31/2008 | 7/30/2014  |
| 200980104486      | -                  | 200980104486           | CN       | UTL        | Social Network Search  | 1/15/2009  | 3/6/2013   |
| ZL 200980104668.8 | 101940055 A        | 200980104669           | CN       | UTL        | Location Tracking Based On Proximity-Based Ad Hoc Network  | 2/2/2009   | 7/10/2013  |
| ZL 200980107056.4 | 101960446 A        | 200980107056           | CN       | UTL        | Secure Browser-Based Applications  | 2/23/2009  | 8/13/2014  |
| 602008013450      | -                  | 8744501                | DE       | UTL        | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM  | 3/27/2008  | 2/15/2012  |
| 2156268           | -                  | 8744501                | EP       | UTL        | Cold Row Encapsulation for Server Farm Cooling System  | 3/27/2008  | 2/15/2012  |
| -                 | 2422258            | 10767491               | EP       | UTL        | Cold Row Encapsulation for Server Farm Cooling System  | 3/31/2010  | -          |
| -                 | 2422257            | 10767490               | EP       | UTL        | Cold Row Encapsulation For Server Farm Cooling System  | 3/31/2010  | -          |
| -                 | 2422259            | 10767491               | EP       | UTL        | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM  | 3/31/2010  | -          |

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|            |             |                 |    |     |   |            |            |
|------------|-------------|-----------------|----|-----|---|------------|------------|
| 2156268    | -           | 8744501         | FR | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 3/27/2008  | 2/15/2012  |
| 2156268    | -           | 8744501         | GB | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 3/27/2008  | 2/15/2012  |
| 1141877    | HK1141877   | 10108303        | HK | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 8/16/2013  |
| 1167481    | 1167481     | 12107980        | HK | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 9/11/2015  |
| 1166868    | 1166868     | 12107458        | HK | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 7/31/2015  |
| -          | -           | 15109100        | HK | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | -          |
| -          | 1192340     | 14105437        | HK | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2013  | -          |
| 2156268    | -           | 8744501         | IE | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 3/27/2008  | 2/15/2012  |
| -          | 45/2009     | 4916/CHENP/2009 | IN | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | -          |
| -          | 18/2013     | 7752/CHENP/2011 | IN | UTL | Cold Row Encapsulation for Server Farm Cooling System | 10/24/2011 | -          |
| -          | 18/2013     | 7753/CHENP/2011 | IN | UTL | Cold Row Encapsulation For Server Farm Cooling System | 10/24/2011 | -          |
| -          | 18/2013     | 7754/CHENP/2011 | IN | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 10/24/2011 | -          |
| -          | -           | 5779/CHENP/2015 | IN | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | -          |
| 5671337    | 2010-529676 | 2010-511226     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 12/26/2014 |
| 5745502    | 2012-524939 | 2012-507235     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 5/15/2015  |
| 5628292    | 2012-524940 | 2012-507236     | JP | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 10/10/2014 |
| 5829639    | 2013-128143 | 2013-033582     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 10/30/2015 |
| -          | 2015-035218 | 2014-201540     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | -          |
| -          | 2015-135682 | 2015-022278     | JP | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | -          |
| -          | 2015-187865 | 2015-087722     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | -          |
| -          | 2015-195034 | 2015-094195     | JP | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | -          |
| 10-1162427 | -           | 10-2009-7023599 | KR | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 6/27/2012  |
| 10-1346450 | -           | 10-2011-7026798 | KR | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 12/23/2013 |

SCHEDULE OF ASSETS

|             |            |                 |    |     |   |            |            |
|-------------|------------|-----------------|----|-----|---|------------|------------|
| 10-1429330  | -          | 10-2011-7027366 | KR | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 8/5/2014   |
| 10-1354366  | -          | 10-2011-7026124 | KR | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 1/15/2014  |
| -           | -          | PI 20093307     | MY | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | -          |
| MY-154666-A | -          | PI 2011004955   | MY | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 7/15/2015  |
| -           | -          | PI 2011004954   | MY | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | -          |
| MY-154645-A | -          | PI 2011004988   | MY | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 7/15/2015  |
| 2156268     | -          | 8744501         | NL | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 3/27/2008  | 2/15/2012  |
| 2470346     | 2009133092 | 2009133092      | RU | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 12/20/2012 |
| 2531877     | -          | 2011142244      | RU | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 9/1/2014   |
| 2 562 442   | -          | 2011142245      | RU | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 8/1/2016   |
| 2532846     | -          | 2011142243      | RU | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 9/15/2014  |
| -           | -          | 2015131298      | RU | UTL | Server Cooling Room                                   | 3/31/2010  | -          |
| 154666      | -          | 200905275-4     | SG | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/27/2008  | 6/29/2012  |
| 175237      | -          | 201107522-3     | SG | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/31/2010  | 8/31/2012  |
| 175238      | -          | 201107524-9     | SG | UTL | Cold Row Encapsulation For Server Farm Cooling System | 3/31/2010  | 6/13/2014  |
| 175740      | -          | 201107608-0     | SG | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM | 3/31/2010  | 8/15/2012  |
| 1399634     | -          | 97109295        | TW | UTL | Cold Row Encapsulation for Server Farm Cooling System | 3/17/2008  | 6/21/2013  |
| 1421672     | -          | 99110857        | TW | UTL | Cold Row Encapsulation for Server Farm Cooling System | 4/8/2010   | 1/1/2014   |
| 1487471     | 201101984  | 99110858        | TW | UTL | Cold Row Encapsulation For Server Farm Cooling System | 4/8/2010   | 6/1/2015   |
| -           | -          | 99110859        | TW | UTL | Cold Row Encapsulation for Server Farm Cooling System | 4/8/2010   | -          |
| -           | -          | 102143684       | TW | UTL | Cold Row Encapsulation for Server Farm Cooling System | 11/29/2013 | -          |
| -           | -          | 105103243       | TW | UTL | Cold Row Encapsulation for Server Farm Cooling System | 2/2/2016   | -          |
| 7430118     | -          | 11/757,864      | US | UTL | Cold Row Encapsulation for Server Farm Cooling System | 6/4/2007   | 9/30/2008  |

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|         |                    |                   |    |     |   |            |            |
|---------|--------------------|-------------------|----|-----|---|------------|------------|
| 8395891 | 2008-0305733-A1    | 12/193,113        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 8/18/2008  | 3/12/2013  |
| 7672128 | US-2010-0091448-A1 | 12/258,683        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 10/27/2008 | 3/2/2010   |
| 7800900 | -                  | 12/427,655        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 4/21/2009  | 9/21/2010  |
| -       | 2010-0263830       | 12/427,666        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 4/21/2009  | -          |
| 8054625 | 2010-0263825       | 12/427,660        | US | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM         | 4/21/2009  | 11/8/2011  |
| 7957142 | 2010-0091448       | 12/635,966        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 12/11/2009 | 6/7/2011   |
| 8755182 | 2012-0012278       | 13/245,745        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 9/26/2011  | 6/17/2014  |
| 8913381 | 2013-0188310 A1    | 13/791,901        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 3/8/2013   | 12/16/2014 |
| 9204577 | 2014-0301027 A1    | 14/288,290        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 5/27/2014  | 12/1/2015  |
| -       | 2015-0098179 A1    | 14/569,607        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 12/12/2014 | -          |
| -       | -                  | 14/951,323        | US | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 11/24/2015 | -          |
| -       | WO 208/150566 A1   | PCT/US08/58504    | WO | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 3/27/2008  | -          |
| -       | -                  | PCT/US2010/029356 | WO | UTL | Cold Row Encapsulation for Server Farm Cooling System         | 3/31/2010  | -          |
| -       | -                  | PCT/US2010/029348 | WO | UTL | Cold Row Encapsulation For Server Farm Cooling System         | 3/31/2010  | -          |
| -       | -                  | PCT/US2010/029360 | WO | UTL | COLD ROW ENCAPSULATION FOR SERVER FARM COOLING SYSTEM         | 3/31/2010  | -          |
| 389046  | -                  | 97114768          | TW | UTL | Trusted Third Party Clearing House for Lead Tracking          | 4/23/2008  | 3/11/2013  |
| 8423479 | US 2008/0281756 A1 | 11/745,263        | US | UTL | Trusted Third Party Clearing House For Lead Tracking          | 5/7/2007   | 4/16/2013  |
| -       | 2008-0281757 A1    | 11/756,947        | US | UTL | Trusted Privacy Information management                        | 6/1/2007   | -          |
| -       | 2013-0226811 A1    | 13/857,785        | US | UTL | Trusted Third Party Clearing House For Lead Tracking          | 4/5/2013   | -          |
| -       | WO 2008/137278 A1  | PCT/US08/60625    | WO | UTL | Trusted Third Party Clearing House For Lead Tracking          | 4/17/2008  | -          |
| 8055670 | US-2009-0049478-A1 | 11/837,920        | US | UTL | Automatic generation of titles in a social knowledge database | 8/13/2007  | 11/8/2011  |
| 7941740 | US-2009-0019354-A1 | 11/853,688        | US | UTL | AUTOMATICALLY FETCHING WEB CONTENT WITH USER ASSISTANCE       | 9/11/2007  | 5/10/2011  |
| -       | 200919353          | 97127610          | TW | UTL | System and Method for Providing Electronic Advertisements     | 7/21/2008  | -          |

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|         |                    |                 |    |     |   |                      |
|---------|--------------------|-----------------|----|-----|---|----------------------|
| -       | US-2009-0029720-A1 | 11/829,329      | US | UTL | System and Method for Providing Electronic Advertisements   | 7/27/2007 -          |
| -       | WO 2009/018017 A2  | PCT/US08/70767  | WO | UTL | System and Method for Providing Electronic Advertisements   | 7/22/2008 -          |
| -       | 2009-0007274 A1    | 11/770,134      | US | UTL | Rights Engine Including Access Rights Enforcement   | 6/28/2007 -          |
| 262922  | 37/2009            | 2114/CHE/2007   | IN | UTL | TECHNIQUES FOR MODIFYING A QUERY BASED ON QUERY ASSOCIATIONS  | 9/20/2007 9/24/2014  |
| 8930356 | US-2009-0083226-A1 | 11/938,552      | US | UTL | Techniques for modifying a query based on query associations  | 11/12/2007 1/6/2015  |
| -       | US-2008-0294515-A1 | 11/752,912      | US | UTL | Incentive-Based System and Method for Third-Party Web Application Development and Publication   | 5/23/2007 -          |
| 7844567 | US-2009-0049002-A1 | 11/837,570      | US | UTL | System and method for selecting a training sample from a sample set   | 8/13/2007 11/30/2010 |
| 8666813 | 2009-0070212 A1    | 11/900,524      | US | UTL | System and Method Using Sampling for Scheduling Advertisements in an Online Auction with Budget and Time Constraints                            | 9/10/2007 3/4/2014   |
| 7996306 | 2009-0070251       | 11/900,523      | US | UTL | System and Method for Payment Over a Series of Time Periods in an Online Market with Budget and Time Constraints                                | 9/10/2007 8/9/2011   |
| 1444992 | 200926156          | 97131169        | TW | UTL | Intelligent Media Buffering Based On Input Focus Proximity  | 8/15/2008 7/11/2014  |
| 9148628 | 2009-0046545 A1    | 11/840,188      | US | UTL | Intelligent Media Buffering Based on Input Focus Proximity  | 8/16/2007 9/29/2015  |
| -       | WO 2009/026101     | PCT/US08/073187 | WO | UTL | Intelligent Media Buffering Based on Input Focus Proximity  | 8/14/2008 -          |
| 7903819 | 2009-0067631 A1    | 11/852,154      | US | UTL | Memory Efficient Storage of Large Numbers of Key Value Pairs  | 9/7/2007 3/8/2011    |
| 7836099 | US-2009-0037447-A1 | 11/831,828      | US | UTL | A Mail Compression Scheme with Individual Message Decompressability   | 7/31/2007 11/16/2010 |
| 8972326 | 2011-0125877       | 13/014,978      | US | UTL | System and method for global load balancing of requests for content based on membership status of a user with one or more subscription services | 1/27/2011 3/3/2015   |
| -       | 2015-0142930 A1    | 14/607,889      | US | UTL | System and Method for Global Load Balancing of Requests for Content Based on Membership Status of a User with One or More Subscription Services | 1/28/2015 -          |
| 7904409 | US-2009-0037361-A1 | 11/926,410      | US | UTL | A technique for global load balancing based on dynamic network data and application level business rules  | 10/29/2007 3/8/2011  |
| 1393063 | 200923817          | 97128475        | TW | UTL | Method for calculating brand index (bj) for interactive rich media advertising monetization   | 7/25/2008 4/11/2013  |
| -       | 2009-0030785 A1    | 11/828,789      | US | UTL | MONETIZING RICH MEDIA ADVERTISING INTERACTION   | 7/26/2007 -          |

PATENT

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|            |                    |                   |    |     |   |                      |
|------------|--------------------|-------------------|----|-----|---|----------------------|
| -          | 2009-0030784 A1    | 11/828,509        | US | UTL | BUSINESS APPLICATIONS AND MONETIZATION MODELS OF RICH MEDIA BRAND INDEX MEASUREMENTS  | 7/26/2007 -          |
| -          | WO 2009/015117 A3  | PCT/US08/70711    | WO | UTL | Monetizing Rich Media Advertising Interaction Method For Matching Electronic Advertisements To Surrounding Context Based On Their Advertisement Content | 7/22/2008 -          |
| 8073803    | US-2009-0024554-A1 | 11/778,540        | US | UTL | Mail Monetization - Revenue Sharing Model   | 7/16/2007 12/6/2011  |
| -          | 2009-0083142 A1    | 11/861,000        | US | UTL | Method for generating structured query results using lexical clustering   | 9/25/2007 -          |
| 7809745    | US-2009-0043753-A1 | 11/836,277        | US | UTL | Remote Profile Modification for Device Recovery Assist  | 8/9/2007 10/5/2010   |
| 9020466    | 2009-0042598 A1    | 11/835,937        | US | UTL | Remote Profile Modification for Device Recovery Assist  | 8/8/2007 4/28/2015   |
| -          | 2015-0230083 A1    | 14/692,312        | US | UTL | Assist  | 4/21/2015 -          |
| 7973655    | 2009-0135002       | 11/945,913        | US | UTL | Mobile device tracking and location awareness   | 11/27/2007 7/5/2011  |
| 8280993    | 2009-0094311-A1    | 11/867,096        | US | UTL | System and Method for Detecting Internet Bots   | 10/4/2007 10/2/2012  |
| 7831595    | US-2009-0171942-A1 | 11/967,851        | US | UTL | Predicting and Ranking Search Query Results   | 12/31/2007 11/9/2010 |
| -          | 37/2010            | 915/CHENP/2010    | IN | UTL | Techniques for Improving User Engagement with Advertisements  | 7/10/2008 -          |
| 10-1161502 | -                  | 10-2010-7003423   | KR | UTL | Techniques for Improving User Engagement with Advertisements  | 7/10/2008 6/25/2012  |
| -          | 200921541          | 97126885          | TW | UTL | Techniques for improving user engagement with advertisements  | 7/16/2008 -          |
| -          | 20090024463        | 11/779,770        | US | UTL | Techniques for Improving User Engagement with Advertisements  | 7/18/2007 -          |
| -          | 2009/012118        | PCT/US2008/069679 | WO | UTL | Techniques for Improving User Engagement with Advertisements  | 7/10/2008 -          |
| -          | US-2009-0106226-A1 | 11/875,666        | US | UTL | Search Shortcut Pullquotes  | 10/19/2007 -         |
| 7882177    | 2009-0043853-A1    | 11/834,529        | US | UTL | EMPLOYING PIXEL DENSITY TO DETECT A SPAM IMAGE  | 8/6/2007 2/1/2011    |
| 8301719    | 2011-0078269       | 12/963,514        | US | UTL | Employing Pixel Density to Detect a Spam Image  | 12/8/2010 10/30/2012 |
| 7849092    | US-2009-0049091-A1 | 11/838,003        | US | UTL | System And Method For Identifying Similar Media Objects   | 8/13/2007 12/7/2010  |
| 8407230    | US-2009-0049082-A1 | 11/842,899        | US | UTL | System And Method For Identifying Similar Media Objects   | 8/21/2007 3/26/2013  |
| -          | 2014-0040280-A1    | 13/773,540        | US | UTL | System And Method For Identifying Similar Media Objects   | 2/21/2013 -          |
| 1505221    | 200917149          | 97125190          | TW | UTL | A mobile notification system  | 7/4/2008 10/21/2015  |
| -          | 2014-0206397 A1    | 14/165,402        | US | UTL | Mobile notification system  | 1/27/2014 -          |
| 8045995    | US 2008-0299989 A1 | 11/755,998        | US | UTL | Centralized Location Broker   | 5/31/2007 10/25/2011 |
| 1386839    | 200923761          | 97130500          | TW | UTL | Method, apparatus, system, computer program product for modifying a webpage   | 8/11/2008 2/21/2013  |
| 7877687    | US-2009-0049385-A1 | 11/893,836        | US | UTL | PERSISTENT VISUAL MEDIA PLAYER  | 8/16/2007 1/25/2011  |
| 8316300    | 2011-0119586       | 13/011,641        | US | UTL | Persistent Visual Media Player  | 1/21/2011 11/20/2012 |
| 7941429    | US-2009-0019031-A1 | 11/827,316        | US | UTL | Interface for Visually Searching and Navigating Objects   | 7/10/2007 5/10/2011  |

SCHEDULE OF ASSETS

|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 8087033    | 2009-0064010       | 11/849,214        | US | UTL | Task-based Tool For Speeding And Customizing Interactions With Web Documents  | 8/31/2007  | 12/27/2011 |
| -          | 2009-0043597 A1    | 11/890,957        | US | UTL | System and method for matching objects using a cluster-dependent multi-armed bandit   | 8/7/2007   | -          |
| 8392446    | 2008-0301113       | 11/755,851        | US | UTL | System and method for providing vector terms related to a search query  | 5/31/2007  | 3/5/2013   |
| -          | -                  | PCT/US08/64196    | WO | UTL | System and method for providing vector terms related to a search query  | 5/20/2008  | -          |
| 8583615    | US-2009-0063414-A1 | 11/849,006        | US | UTL | System and Method for Generating a Playlist From a Mood Gradient  | 8/31/2007  | 11/12/2013 |
| -          | 2014-0189512 A1    | 14/072,981        | US | UTL | System and Method for Generating a Playlist From a Mood Gradient  | 11/6/2013  | -          |
| 9268812    | 2014-0059430 A1    | 14/069,368        | US | UTL | SYSTEM AND METHOD FOR GENERATING A MOOD GRADIENT  | 10/31/2013 | 2/23/2016  |
| 8577134    | 20090041345-A1     | 11/835,337        | US | UTL | Method and System of Facilitating Search by Color Desktop Application Factory And Application Templates   | 8/7/2007   | 11/5/2013  |
| 8166455    | 2009-0007054-A1    | 11/770,411        | US | UTL | Integrating Sponsored Media with User-Generated Content   | 6/28/2007  | 4/24/2012  |
| -          | -                  | 8796796           | EP | UTL | Integrating Sponsored Media with User-Generated Content   | 7/29/2008  | -          |
| -          | 34/2010            | 1741/CHEMPI/2010  | IN | UTL | Integrating Sponsored Media with User-Generated Content   | 7/29/2008  | -          |
| 10-1505225 | 10-2010-0044875    | 10-2010-7004577   | KR | UTL | A Content Generation Apparatus, A System For Providing A Web-Based Service To Permit Integration Of User Generated Content With Sponsored Media And A Computer-Implemented Method | 7/29/2008  | 3/17/2015  |
| 1457768    | 200923682          | 97130142          | TW | UTL | Integrating Sponsored Media with User-Generated Content   | 8/7/2008   | 10/21/2014 |
| 8639714    | US-2009-0063449-A1 | 11/846,786        | US | UTL | Integrating Sponsored Media with User-Generated Content   | 8/29/2007  | 1/28/2014  |
| -          | 2014-0100951 A1    | 14/101,752        | US | UTL | Integrating Sponsored Media with User-Generated Content   | 12/10/2013 | -          |
| -          | WO 2009/032428     | PCT/US08/71503    | WO | UTL | Integrating Sponsored Media with User-Generated Content   | 7/29/2008  | -          |
| -          | 25/2012            | 7021/CHEMPI/2009  | IN | UTL | Redemption Techniques for Electronic Coupons  | 5/21/2008  | -          |
| 10-1421359 | -                  | 10-2012-7014035   | KR | UTL | Redemption Techniques for Electronic Coupons  | 5/21/2008  | 7/14/2014  |
| 386860     | -                  | 97119658          | TW | UTL | Methods and Systems for Authorizing Redemption of Electronic Coupons  | 5/28/2008  | 2/21/2013  |
| -          | 2008-0300970-A1    | 11/754,548        | US | UTL | Redemption Techniques for Electronic Coupons  | 5/29/2007  | -          |
| -          | WO 2008/150706 A1  | PCT/US2008/064356 | WO | UTL | Redemption Techniques for Electronic Coupons  | 5/21/2008  | -          |
| 8165808    | 20090024315-A1     | 11/879,626        | US | UTL | Techniques for Representing Location Information  | 7/17/2007  | 4/24/2012  |
| 8775420    | US-2009-0111487-A1 | 11/931,332        | US | UTL | Text Display Of Geo-Referenced Information Based On Relative Distance To A User Location  | 10/31/2007 | 7/8/2014   |

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|            |                    |             |    |     |  |              |           |
|------------|--------------------|-------------|----|-----|--|--------------|-----------|
| 7953676    | US-2009-0055139-A1 | 1/1841,093  | US | UTL | PREDICTIVE DISCRETE LATENT FACTOR MODELS FOR LARGE SCALE DYADIC DATA   | 8/20/2007    | 5/31/2011 |
| 7870474    | 2008-0275890       | 11/800,235  | US | UTL | System and Method for Smoothing Hierarchical Data Using Isotonic Regression  | 5/4/2007     | 1/11/2011 |
| -          | -                  | 60/544,209  | US | PRV | Method and apparatus for wirelessly communicating and messaging between previously known and unknown parties             | 2/11/2004 -  | -         |
| 7545784    | 2005-0174975 A1    | 11/1055,310 | US | UTL | System and method for wireless communication between previously known and unknown users                                  | 2/10/2005    | 6/9/2009  |
| -          | -                  | 60/549,484  | US | PRV | Method and apparatus for wirelessly communicating and messaging between previously known and unknown parties             | 3/1/2004 -   | -         |
| -          | -                  | 60/550,262  | US | PRV | Method and apparatus for wirelessly communicating and messaging between previously known and unknown parties             | 3/3/2004 -   | -         |
| 8023929    | 2009-0164309 A1    | 12/395,174  | US | UTL | System And Method For Wireless Communication Between Previously Known And Unknown Users                                  | 2/27/2009    | 9/20/2011 |
| 8249566    | 2011-0276647       | 13/186,810  | US | UTL | SYSTEM AND METHOD FOR PROFILE FILTERED MESSAGING   | 7/20/2011    | 8/21/2012 |
| 8478247    | 2011-0276412       | 13/186,844  | US | UTL | SYSTEM AND METHOD FOR PORTABLE PROFILES  | 7/20/2011    | 7/2/2013  |
| 8265654    | -                  | 13/186,911  | US | UTL | SYSTEM AND METHOD FOR PROXIMITY AREA NETWORKING FOR SELECTION OF MESSAGING   | 7/20/2011    | 9/11/2012 |
| 8989727    | 2012-0329554       | 13/604,047  | US | UTL | System and Method for Proximity Area Networking for Mobile Gaming  | 9/5/2012     | 3/24/2015 |
| 8478254    | 2012-0316967       | 13/590,013  | US | UTL | SYSTEM AND METHOD FOR PROFILE FILTERED ADVERTISEMENTS  | 8/20/2012    | 7/2/2013  |
| 2008343433 | -                  | 2008343433  | AU | UTL | Method For Determining Network Proximity For Global Traffic Load Balancing Using Passive TCP Performance Instrumentation | 12/12/2008   | 12/8/2011 |
| 2008345200 | -                  | 2008345200  | AU | UTL | Mapless Global Traffic Load Balancing Via Anycast  | 12/23/2008   | 7/19/2012 |
| 2008343434 | -                  | 2008343434  | AU | UTL | DNS wildcard beaconing to determine client location and resolver load for global traffic load balancing                  | 12/12/2008   | 6/8/2012  |
| 2012202910 | -                  | 2012202910  | AU | UTL | DNS Wildcard Beaconing To Determine Client Location And Resolver Load For Global Traffic Load Balancing                  | 12/12/2008   | 1/8/2015  |
| -          | -                  | 8866397     | EP | UTL | Method For Determining Network Proximity For Global Traffic Load Balancing Using Passive TCP Performance Instrumentation | 12/12/2008 - | -         |
| -          | -                  | 8867262     | EP | UTL | Mapless Global Traffic Load Balancing Via Anycast  | 12/23/2008 - | -         |

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|            |                 |   |                 |    |     |   |              |            |
|------------|-----------------|---|-----------------|----|-----|---|--------------|------------|
| -          | -               | - | 8867775         | EP | UTL | DNS wildcard beaconing to determine client location and resolver load for global traffic load balancing   | 12/12/2008 - |            |
| -          | 26/2011         |   | 6735/CHENP/2010 | IN | UTL | Methods for Collecting and Analyzing Network Performance Data   | 3/31/2009 -  |            |
| -          | 42/2010         |   | 3139/CHENP/2010 | IN | UTL | Method For Determining Network Proximity For Global Traffic Load Balancing Using Passive TCP Performance Instrumentation                                  | 12/12/2008 - |            |
| -          | 46/2010         |   | 3143/CHENP/2010 | IN | UTL | Mapless Global Traffic Load Balancing Via Anycast DNS wildcard beaconing to determine client location and resolver load for global traffic load balancing | 12/23/2008 - |            |
| -          | 42/2010         |   | 3136/CHENP/2010 | IN | UTL | Methods for Collecting and Analyzing Network Performance Data   | 12/12/2008 - |            |
| 10-1114152 | -               |   | 10-2010-7023216 | KR | UTL | Method For Determining Network Proximity For Global Traffic Load Balancing Using Passive TCP Performance Instrumentation                                  | 3/31/2009    | 2/1/2012   |
| 10-1086545 | -               |   | 10-2010-7016192 | KR | UTL | Mapless Global Traffic Load Balancing Via Anycast DNS wildcard beaconing to determine client location and resolver load for global traffic load balancing | 12/12/2008   | 11/17/2011 |
| 10-1177203 | -               |   | 10-2010-7016801 | KR | UTL | Methods for Collecting and Analyzing Network Performance Data   | 12/12/2008   | 6/1/2012   |
| 10-1154799 | -               |   | 10-2010-7016018 | KR | UTL | METHOD FOR DETERMINING NETWORK PROXIMITY FOR GLOBAL TRAFFIC LOAD BALANCING USING PASSIVE TCP  | 3/31/2009    | 8/15/2012  |
| 164719     | -               |   | 201006571-2     | SG | UTL | PERFORMANCE USING INSTRUMENTATION   | 11/17/2008   | 6/1/2013   |
| 381691     | -               |   | 97141811        | TW | UTL | Method, Apparatus, System, Instructions And Software For Domain Name Resolution   | 10/30/2008   | 1/1/2013   |
| 398149     | -               |   | 97144306        | TW | UTL | Medium, method and system for dns wildcard beaconing to determine client location and resolver load for global traffic load balancing                     | 11/17/2008   | 6/1/2013   |
| 392316     | 200943878       |   | 97141816        | TW | UTL | METHOD FOR DETERMINING NETWORK PROXIMITY FOR GLOBAL TRAFFIC LOAD BALANCING USING PASSIVE TCP  | 10/30/2008   | 4/1/2013   |
| 7962631    | 2009-0164646A1  |   | 11/963,700      | US | UTL | PERFORMANCE INSTRUMENTATION   | 12/21/2007   | 6/14/2011  |
| 8756340    | 2009-0164614A1  |   | 11/962,051      | US | UTL | DNS Wildcard Beaconing To Determine Client Location And Resolver Load For Global Traffic Load Balancing   | 12/20/2007   | 6/17/2014  |
| 8073953    | 2010-0235441    |   | 12/790,452      | US | UTL | Mapless Global Traffic Load Balancing Via Anycast DNS Wildcard Beaconing  | 5/28/2010    | 12/6/2011  |
| -          | 2014-0181287 A1 |   | 14/191,807      | US | UTL | Methods for Collecting and Analyzing Network Performance Data   | 2/27/2014 -  |            |
| -          | -               |   | PCT/US09/38969  | WO | UTL | Methods for Collecting and Analyzing Network Performance Data   | 3/31/2009 -  |            |

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|            |                    |                   |    |     |   |                       |
|------------|--------------------|-------------------|----|-----|---|-----------------------|
| -          | 2009/085669        | PCT/US08/86700    | WO | UTL | Method For Determining Network Proximity For Global Traffic Load Balancing Using Passive TCP Performance Instrumentation                                  | 12/12/2008 -          |
| -          | -                  | PCT/US08/88158    | WO | UTL | Mapless Global Traffic Load Balancing Via Anycast DNS wildcard beaconing to determine client location and resolver load for global traffic load balancing | 12/29/2008 -          |
| -          | 2009/085670        | PCT/US08/86704    | WO | UTL | Live Action Icons for the Internet  | 12/12/2008 -          |
| 8683384    | 2011-0041169       | 12/539,566        | US | UTL | Method and Apparatus for Estimating the Performance of an Information Package   | 8/11/2009 - 3/25/2014 |
| 390421     | -                  | 97128744          | TW | UTL | Traffic Predictor for Network-Accessible Information Modules  | 7/30/2008 - 3/21/2013 |
| 7987261    | 2009/0037421-A1    | 1/1831,075        | US | UTL | Traffic Predictor for Network-Accessible Information Modules  | 7/31/2007 - 7/26/2011 |
| -          | WO 2009/018141 A2  | PCT/US2008/071173 | WO | UTL | Information Modules   | 7/25/2008 -           |
| 2008247831 | -                  | 2008247831        | AU | UTL | Enabling Clustered Search Processing Via Text Messaging   | 4/29/2008 - 9/15/2011 |
| -          | 2153354            | 8747075           | EP | UTL | Enabling Clustered Search Processing Via Text Messaging   | 4/29/2008 -           |
| 375157     | 13/2010            | 7059/CHEMP/2009   | IN | UTL | Enabling Clustered Search Processing Via Text Messaging   | 4/29/2008 -           |
| -          | -                  | 97116170          | TW | UTL | Enabling Clustered Search Processing Via Text Messaging   | 5/2/2008 - 10/21/2012 |
| -          | -                  | 60/915,639        | US | PRV | ENABLING CLUSTERED SEARCH PROCESSING VIA TEXT MESSAGING   | 5/2/2007 -            |
| 7693902    | 2008-0275864       | 11/833,173        | US | UTL | Enabling Clustered Search Processing via Text Messaging   | 8/2/2007 - 4/6/2010   |
| -          | WO 2008/137395     | PCT/US08/61836    | WO | UTL | Enabling Clustered Search Processing Via Text Messaging   | 4/29/2008 -           |
| 8682724    | 2009-0070211 A1    | 11/900,522        | US | UTL | System and method using sampling for scheduling advertisements in slots of different quality in an online auction with budget and time constraints        | 9/10/2007 - 3/25/2014 |
| -          | US-2009-0089373-A1 | 11/863,486        | US | UTL | System and method for identifying spam hosts using stacked graphical learning   | 9/28/2007 -           |
| -          | 2009-0183112 A1    | 12/180,486        | US | UTL | System and Method for Word-of-Mouth Advertising   | 7/25/2008 -           |
| -          | WO2009/091655 A2   | PCT/US2009/030405 | WO | UTL | System and Method for Word-of-Mouth Advertising   | 1/8/2009 -            |
| -          | WO2009/091656 A2   | PCT/US2009/030406 | WO | UTL | System and Method for Real-Time Media Object-Specific Communications  | 1/8/2009 -            |
| -          | -                  | 60/916,386        | US | PRV | Framework for the distribution and presentation of television widgets   | 5/7/2007 -            |
| 9179086    | 2009-0100361       | 12/062,703        | US | UTL | System and method for providing dynamically updating applications in a television display environment   | 4/4/2008 - 11/3/2015  |

PATENT

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|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 1447607    | 200941275          | 97139522        | TW | UTL | Method of online identity management  | 10/15/2008 | 8/1/2014   |
| 7689627    | US-20090100066-A1  | 11/872,648      | US | UTL | Identity Management   | 10/15/2007 | 3/30/2010  |
| -          | -                  | PCT/US08/79780  | WO | UTL | Identity Management   | 10/14/2008 | -          |
| -          | 101960455 A        | 200980107846    | CN | UTL | System, Method, and/or Apparatus For Reordering Search Results                    | 2/20/2009  | -          |
| -          | -                  | 8853599         | EP | UTL | Enabling Searching On Abbreviated Search Terms                                    | 10/31/2008 | -          |
| 1150207    | 1150207            | 11104359        | HK | UTL | Enabling Searching On Abbreviated Search Terms                                    | 10/31/2008 | 2/27/2015  |
| -          | 40/2010            | 3137/CHENP/2010 | IN | UTL | Enabling Searching On Abbreviated Search Terms                                    | 10/31/2008 | -          |
| 1391836    | 200943098          | 97142813        | TW | UTL | Enabling Searching On Abbreviated Search Terms                                    | 11/6/2008  | 4/1/2013   |
| 7966304    | 2009-0144260       | 11/948,873      | US | UTL | Enabling Searching On Abbreviated Search Terms                                    | 11/30/2007 | 6/21/2011  |
| -          | WO 2009/070413     | PCT/US08/82085  | WO | UTL | Enabling Searching On Abbreviated Search Terms                                    | 10/31/2008 | -          |
| 7895206    | 2009-0228437-A1    | 12/043,068      | US | UTL | Via Messaging   | 3/5/2008   | 2/22/2011  |
| -          | 2009-0070114 A1    | 11/852,809      | US | UTL | Search Query categorization into Verticals  | 9/10/2007  | -          |
| -          | 2008296153         | 2008296153 AU   | AU | UTL | Audible Metadata  | 9/5/2008   | 10/6/2011  |
| 10-1145062 | 2011218691         | 2011218691 AU   | AU | UTL | Bookmarking in videos   | 9/5/2008   | 7/15/2013  |
| 1403970    | -                  | 10-2010-7007509 | KR | UTL | Bookmarking in videos   | 9/5/2008   | 5/3/2012   |
| -          | 2009-0067806 A1    | 97131888        | TW | UTL | Bookmarking in videos   | 8/21/2008  | 8/1/2013   |
| -          | -                  | 11/876,964      | US | UTL | Bookmarking in videos   | 10/23/2007 | -          |
| 2008296144 | -                  | PCT/US08/75370  | WO | UTL | Bookmarking in videos   | 9/5/2008   | -          |
| 10-1193794 | -                  | 2008296144      | AU | UTL | Bookmarking in videos   | 9/5/2008   | 9/8/2011   |
| -          | -                  | 10-2010-7007506 | KR | UTL | Delayed Advertisement Insertion In Videos   | 9/5/2008   | 10/16/2012 |
| 1381325    | 200926035          | 97131743        | TW | UTL | Delayed Advertisement Insertion In Videos   | 8/20/2008  | 1/1/2013   |
| 8108257    | 2009-0070206-A1    | 11/877,008      | US | UTL | Method and computer-readable medium for delayed advertisement insertion in videos | 10/23/2007 | 1/31/2012  |
| -          | -                  | PCT/US08/75359  | WO | UTL | Delayed Advertisement Insertion In Videos   | 9/5/2008   | -          |
| 8886817    | 2009-0292814       | 12/125,626      | US | UTL | Delayed Advertisement Insertion In Videos   | 5/22/2008  | 11/11/2014 |
| 369617     | -                  | 97124691        | TW | UTL | Federation and Interoperability Between Social Networks                           | 7/1/2008   | 8/1/2012   |
| 7958228    | 200900191182       | 11/776,488      | US | UTL | Behavioral Predictions Based On Network Activity                                  | 7/11/2007  | 6/7/2011   |
| 9104775    | 2009-0100356 A1    | 11/873,373      | US | UTL | Locations   | 10/16/2007 | 8/11/2015  |
| 7840548    | US-2009-0171933-A1 | 11/965,296      | US | UTL | Method For Presenting A Web Page  | 12/27/2007 | 11/23/2010 |
| 8051065    | -                  | 12/907,456      | US | UTL | System and method for adding identity to web rank                                 | 10/19/2010 | 11/1/2011  |
| 8346750    | 2012-0041940       | 13/282,537      | US | UTL | System and method for adding identity to web rank                                 | 10/27/2011 | 1/1/2013   |
| 8832069    | 2013-0212084 A1    | 13/693,723      | US | UTL | System and method for adding identity to web rank                                 | 12/4/2012  | 9/9/2014   |

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|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 8046675    | US-2009-0172510-A1 | 11/966,134      | US | UTL | Method of creating graph structure from time-series of attention data   | 12/28/2007 | 10/25/2011 |
| 8621339    | 2012-0042230 A1    | 13/278,528      | US | UTL | Method of creating graph structure from time-series of attention data   | 10/21/2011 | 12/31/2013 |
| 7949724    | -                  | 11/966,205      | US | UTL | Determining attention data using DNS information  | 12/28/2007 | 5/24/2011  |
| -          | 2009-0070204 A1    | 11/854,074      | US | UTL | Targeted in-Group Advertising   | 9/12/2007  | -          |
| 7783623    | US-2009-0063459-A1 | 11/848,973      | US | UTL | System and Method For Recommending Songs  | 8/31/2007  | 8/24/2010  |
| 7895049    | 2009-0144211       | 11/948,190      | US | UTL | Dynamic Representation of Group Activity through Reactive Personas  | 11/30/2007 | 2/22/2011  |
| 10-1061330 | -                  | 10-2007-0080528 | KR | UTL | METHOD AND SYSTEM FOR REPLACING HYPERLINKS OF A WEBPAGE   | 8/10/2007  | 8/25/2011  |
| 8751606    | 2009/0043874-A1    | 11/875,526      | US | UTL | Method and System for Replacing Hyperlinks in a Webpage   | 10/19/2007 | 6/10/2014  |
| 10-0954624 | -                  | 10-2007-80529   | KR | UTL | METHOD AND SYSTEM FOR PROVIDING CONTENT ACCORDING TO PERSONAL PREFERENCE  | 8/10/2007  | 4/16/2010  |
| 8595226    | US 2009/0043781-A1 | 11/873,692      | US | UTL | Method and System for Providing Content According to Personal Preference  | 10/17/2007 | 11/26/2013 |
| 7783624    | 2009-0144328-A1    | 11/949,396      | US | UTL | E-Commerce System Using Searchable Tags   | 12/3/2007  | 8/24/2010  |
| 1497435    | 200937328          | 97143204        | TW | UTL | Method, System and Computer Program Product for Targeted Distribution of Commercial Incentives  | 11/7/2008  | 8/21/2015  |
| -          | 2009-0138328 A1    | 11/944,914      | US | UTL | Targeted Distribution Of Commercial Incentives  | 11/26/2007 | -          |
| -          | 2009-0138347 A1    | 11/944,935      | US | UTL | Dynamic Augmentation Of Commercial Incentives   | 11/26/2007 | -          |
| 8280766    | 2012-0016729       | 13/219,000      | US | UTL | Targeted Distribution Of Electronic Coupons   | 8/26/2011  | 10/2/2012  |
| -          | 2011-0313829 A1    | 13/219,141      | US | UTL | Dynamic Augmentation Of Electronic Coupons  | 8/26/2011  | -          |
| -          | 2012-0239487 A1    | 13/485,260      | US | UTL | Targeted Distribution Of Electronic Coupons   | 5/31/2012  | -          |
| 8200257    | US-2009-0061911-A1 | 11/847,899      | US | UTL | Customizable Mobile Message Services  | 8/30/2007  | 6/12/2012  |
| -          | 2012-0149409       | 13/397,381      | US | UTL | Customizable Mobile Message Services  | 2/15/2012  | -          |
| 8086543    | US-2009-0112740-A1 | 11/932,282      | US | UTL | Charity auctions on social networks for optimizing contributors to fund raising campaigns   | 10/31/2007 | 12/27/2011 |
| 7853248    | 2009-0082042       | 11/859,539      | US | UTL | SMS Spam Control  | 9/21/2007  | 12/14/2010 |
| 8392604    | US-2009-0094347-A1 | 11/869,466      | US | UTL | Peer to Peer Browser Content Caching  | 10/9/2007  | 3/5/2013   |
| -          | 2013-0191456 A1    | 13/739,545      | US | UTL | Peer to Peer Browser Content Caching  | 1/11/2013  | -          |
| 7860754    | 2009-0150278       | 12/001,702      | US | UTL | System and Method For Optimizing the Reserve Price and Allocation of Web Page Placements in an Online Keyword Auction Using Generalized Trade Reduction | 12/10/2007 | 12/28/2010 |
| 8467814    | 2009-0069037       | 11/853,618      | US | UTL | SMS Shortcode Allocation  | 9/11/2007  | 6/18/2013  |
| 7725440    | US-2009-0083339-A1 | 11/862,025      | US | UTL | Efficient and Correct Fuzzy Snapshots   | 9/26/2007  | 5/25/2010  |
| 7904303    | US-2009-0055257-A1 | 11/844,959      | US | UTL | Engagement-Oriented Recommendation Principle  | 8/24/2007  | 2/16/2011  |
| 8050960    | US-2009-0094095-A1 | 11/869,486      | US | UTL | Recommendations Based on an Adoption Curve  | 10/9/2007  | 11/1/2011  |
| 8762228    | 2013-0103535 A1    | 13/278,609      | US | UTL | Recommendations Based on an Adoption Curve  | 10/21/2011 | 6/24/2014  |

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SCHEDULE OF ASSETS

|         |                     |            |    |     |   |             |            |
|---------|---------------------|------------|----|-----|---|-------------|------------|
| 1417748 | -                   | 97141808   | TW | UTL | METHOD AND COMPUTER-READABLE STORAGE MEDIUM FOR EXPANDING A QUERY Using a Bipartite Graph To Model and Derive Image and Text Associations | 10/30/2008  | 12/1/2013  |
| 8001139 | 2009-0160860        | 11/961,893 | US | UTL | Expanding a Query to Include Terms Associated Through Visual Content  | 12/20/2007  | 8/16/2011  |
| 7882124 | US- 2009-0164456A1  | 11/966,704 | US | UTL | Document Modification By A Client-Side Application  | 12/28/2007  | 2/1/2011   |
| 8972856 | 2010/0083105 A1     | 12/239,544 | US | UTL | System and Method of Feature Selection Using Subspace Sampling for Text Classification  | 9/26/2008   | 3/3/2015   |
| 8046317 | 2009-0171870        | 12/006,178 | US | UTL | Web Page Classification using Graph based Feature Selection   | 12/31/2007  | 10/25/2011 |
| 7769749 | US-2009-0125503-A1  | 11/938,983 | US | UTL | Representative Keyword Selection  | 11/13/2007  | 8/3/2010   |
| 8463779 | 20090112844         | 11/928,657 | US | UTL | Representative Keyword Selection  | 10/30/2007  | 6/11/2013  |
| -       | 2013-0290100 A1     | 13/912,372 | US | UTL | Non-Intrusive, Context-Sensitive Integration Of Advertisements Within Network-Delivered Media Content                                     | 6/7/2013 -  |            |
| -       | 2009-0083140 A1     | 11/860,637 | US | UTL | Virtual universal translator for a mobile device with a camera  | 9/25/2007 - |            |
| 8725490 | US-2009-0106016-A1  | 11/874,421 | US | UTL | System And Method For Caching Posting Lists   | 10/18/2007  | 5/13/2014  |
| 7890488 | US-2009-0094416-A1  | 11/868,383 | US | UTL | A Network Control System for Optical Communication Networks   | 10/5/2007   | 2/15/2011  |
| 129031  | -                   | 129031     | IL | UTL | A Network Control System for Optical Communication Networks   | 3/17/1999   | 5/13/2003  |
| 6574018 | -                   | 09/389,345 | US | UTL | A Network Control System for Optical Communication Networks   | 9/3/1999    | 6/3/2003   |
| 6738581 | 2003-0174659 A1     | 10/388,479 | US | UTL | Optical Communication Method and System Using Wavelength Division Multiplexing  | 3/17/2003   | 5/18/2004  |
| 124639  | -                   | 124639     | IL | UTL | Optical Communication Method and System Using Wavelength Division Multiplexing  | 5/25/1998   | 12/16/2001 |
| 6404522 | -                   | 09/126,378 | US | UTL | Web-based competitions using dynamic preference ballots   | 7/30/1998   | 6/11/2002  |
| 1388997 | 200925896           | 97133722   | TW | UTL | Web-Based Competitions Using Dynamic Preference Ballots   | 9/3/2008    | 3/11/2013  |
| 8812514 | 2009-0083252        | 11/862,108 | US | UTL | Search Query Scoring and Popularity Monitoring and Systems and Methods Therefor   | 9/26/2007   | 8/19/2014  |
| -       | 2009-0271368 A1     | 12/110,533 | US | UTL | System And Method For Creating And Applying Predictive User Click Models To Predict A Target Page Associated With A Search Query          | 4/28/2008 - |            |
| 9195743 | 2009-0094196 A1     | 11/867,321 | US | UTL | Visual Universal Decryption Apparatus and Methods   | 10/4/2007   | 11/24/2015 |
| 8406424 | US-20089-0110194-A1 | 11/924,009 | US | UTL | Visual Universal Decryption Apparatus and Methods   | 10/25/2007  | 3/26/2013  |
| 8712047 | 2013-0163756-A1     | 13/773,080 | US | UTL | User Augmented Reality for Camera-Enabled Mobile Devices  | 2/21/2013   | 4/29/2014  |
| 8180396 | US-2009-0102859-A1  | 11/874,389 | US | UTL |   | 10/18/2007  | 5/15/2012  |

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|            |                         |                   |    |     |   |            |            |
|------------|-------------------------|-------------------|----|-----|---|------------|------------|
| 8275414    | 2012-0244907 A1         | 13/470,042        | US | UTL | User Augmented Reality for Camera-Enabled Mobile Devices  | 5/11/2012  | 9/25/2012  |
| 8606317    | 2013-0057585 A1         | 13/664,876        | US | UTL | User Augmented Reality For Camera-Enabled Mobile Devices  | 10/31/2012 | 12/10/2013 |
| 1454931    | 200931272               | 97134493          | TW | UTL | System and Method of Inter-Widget Communication   | 9/9/2008   | 10/1/2014  |
| 8352966    | 20090070409             | 11/853,781        | US | UTL | System and Method of Inter-Widget Communication   | 9/11/2007  | 1/8/2013   |
| -          | 2013-0219313 A1         | 13/777,300        | US | UTL | System and Method of Inter-Widget Communication   | 12/17/2012 | -          |
| -          | WO2009036093            | PCT/US08/75896    | WO | UTL | System and Method of Inter-Widget Communication   | 9/10/2008  | -          |
| -          | 2009-0089668 A1         | 11/864,589        | US | UTL | System And Method Of Automatically Sizing And Adapting A Widget To Available Space  | 9/28/2007  | -          |
| -          | WO 2009/045916          | PCT/US08/77923    | WO | UTL | System And Method Of Automatically Sizing And Adapting A Widget To Available Space  | 9/28/2008  | -          |
| -          | 2009-0138493 A1         | 11/944,442        | US | UTL | Method and System for Media Transformation  | 11/22/2007 | -          |
| 8892606    | US-2009-0138502         | 11/944,443        | US | UTL | Method and System for Media Collection Expansion  | 11/22/2007 | 11/18/2014 |
| -          | 2015-0074235 A1         | 14/266,712        | US | UTL | Method And System For Media Collection Expansion  | 4/30/2014  | -          |
| -          | 9269089 2009-0138346 A1 | 11/944,445        | US | UTL | Method and System for Media Promotion   | 11/22/2007 | 2/23/2016  |
| 8219916    | 2010-0023868 A1         | 12/180,146        | US | UTL | Techniques for Visual Representation of User Activity Associated With An Information Resource                             | 7/25/2008  | 7/10/2012  |
| 9111236    | 2012-0210234 A1         | 13/443,584        | US | UTL | Techniques for Generating a Visual Representation of User Activity Associated With An Information Resource                | 4/10/2012  | 8/18/2015  |
| 10-1240122 | -                       | 10-2010-7022056   | KR | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 2/19/2009  | 2/27/2013  |
| 1498336    | 200951858               | 98105779          | TW | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 2/24/2009  | 9/1/2015   |
| 1409712    | -                       | 98105933          | TW | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 2/25/2009  | 9/21/2013  |
| 8533811    | 2009-0222304 A1         | 12/041,088        | US | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 3/3/2008   | 9/17/2013  |
| 8554623    | 2009-0222302 A1         | 12/041,054        | US | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 3/3/2008   | 10/8/2013  |
| 8560390    | 2009-0222303 A1         | 12/041,062        | US | UTL | Method and Apparatus for Social Network Marketing with Brand Referral   | 3/3/2008   | 10/15/2013 |
| -          | WO 2009/111166          | PCT/US2009/034444 | WO | UTL | Method and Apparatus for Social Network Marketing with Advocate Referral  | 2/19/2009  | -          |
| -          | WO2009/111167 A2        | PCT/US2009/034445 | WO | UTL | Method and Apparatus for Social Network Marketing with Consumer Referral  | 2/19/2009  | -          |
| 398786     | -                       | 97147622          | TW | UTL | Marketing with Consumer Referral System, Method and Computer Readable Media for Generating Expertise Based Search Results | 12/8/2008  | 6/11/2013  |

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|            |                    |                   |    |     |  |            |            |
|------------|--------------------|-------------------|----|-----|--|------------|------------|
| 7853583    | US-2009-0171894-A1 | 1/1965,021        | US | UTL | System and method for generating expertise based search results                      | 12/27/2007 | 12/14/2010 |
| 8306965    | 2011-0060735       | 12/942,563        | US | UTL | System and method for generating expertise based search results                      | 11/9/2010  | 11/6/2012  |
| -          | WO 2009/086237     | PCT/US08/87887    | WO | UTL | System and method for generating expertise based search results                      | 12/21/2008 | -          |
| 8051068    | 2009-0265347 A1    | 12/106,986        | US | UTL | Trail-Based Exploration of a Repository of Documents                                 | 4/21/2008  | 11/1/2011  |
| 8001111    | US-2009-0265337-A1 | 12/117,443        | US | UTL | Trail-Based Exploration of a Repository of Documents                                 | 5/8/2008   | 8/16/2011  |
| 7831456    | 2009-0132340       | 11/944,089        | US | UTL | Advertisement Display Depth Optimization   | 11/21/2007 | 11/9/2010  |
| 7805331    | -                  | 11/943,192        | US | UTL | Online Advertiser Acquisition And Valuation  | 11/20/2007 | 9/28/2010  |
| 8156002    | US-2009-0125372-A1 | 11/870,026        | US | UTL | Contextual Ad Matching Strategies that Incorporate Author Feedback                   | 10/10/2007 | 4/10/2012  |
| 7912843    | US-2009-0112840-A1 | 11/926,568        | US | UTL | Methods For Selecting Electronic Advertisements Using Machine Translation Techniques | 10/29/2007 | 3/22/2011  |
| 8145649    | 2011-0087680       | 12/970,757        | US | UTL | Methods For Selecting Electronic Advertisements Using Machine Translation Techniques | 12/16/2010 | 3/27/2012  |
| 8689330    | 2009-0064335       | 11/850,557        | US | UTL | Instant Messaging Malware Protection   | 9/5/2007   | 4/1/2014   |
| 1412991    | -                  | 97130769          | TW | UTL | Customized Today Module  | 8/13/2008  | 10/21/2013 |
| 8065619    | 2009-0063984A1     | 11/899,401        | US | UTL | Customized Today Module  | 9/4/2007   | 11/22/2011 |
| 1406137    | 200931273          | 97134495          | TW | UTL | Method and apparatus for social interaction  | 9/9/2008   | 8/21/2013  |
| 9087325    | 2009-0070665 A1    | 11/853,726        | US | UTL | Social Network Site Including Trust-Based Wiki Functionality                         | 9/11/2007  | 7/21/2015  |
| -          | 2015-0324603 A1    | 14/804,009        | US | UTL | Social Network Site Including Trust-Based Wiki Functionality                         | 7/20/2015  | -          |
| -          | WO 2009/035932 A2  | PCT/US2008/075538 | WO | UTL | Social Network Site Including Trust-Based Wiki Functionality                         | 9/8/2008   | -          |
| 9037970    | 2009-0070286 A1    | 11/853,748        | US | UTL | Social Network Site Including Interactive Digital Objects                            | 9/11/2007  | 5/19/2015  |
| -          | 2015-0229683 A1    | 14/695,510        | US | UTL | Social Network Site Including Interactive Digital Objects                            | 4/24/2015  | -          |
| 7945862    | 2009-0070684-A1    | 11/853,768        | US | UTL | Social Network Site Including Contact-Based Recommendation Functionality             | 9/11/2007  | 5/17/2011  |
| -          | 2011-0219036 A1    | 13/108,473        | US | UTL | SOCIAL NETWORK SITE INCLUDING MODIFICATION CONTROL AND MANAGEMENT                    | 5/16/2011  | -          |
| 9177294    | 2009-0070852-A1    | 11/853,775        | US | UTL | Social Network Site Including Invitation Functionality                               | 9/11/2007  | 11/3/2015  |
| 1402689    | 200925883          | 97131747          | TW | UTL | Module hosting and content generation system and method thereof                      | 8/20/2008  | 7/21/2013  |
| 8397212    | 2009-0063619-A1    | 11/846,843        | US | UTL | Module Hosting and Content Generation Platform                                       | 8/29/2007  | 3/12/2013  |
| -          | WO 2009032491 A2   | PCT/US2008/072969 | WO | UTL | Module Hosting and Content Generation Platform                                       | 8/13/2008  | -          |
| -          | -                  | 8797588           | EP | UTL | Secure Inter-Module Communication Mechanism  | 8/11/2008  | -          |
| 10-1145005 | -                  | 10-2010-7006722   | KR | UTL | Secure Inter-Module Communication Mechanism  | 8/11/2008  | 5/3/2012   |
| 1387933    | 200926043          | 97131175          | TW | UTL | Method and apparatus for providing secure inter-module communication mechanism       | 8/15/2008  | 3/1/2013   |

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|         |                    |                   |    |     |  |            |            |
|---------|--------------------|-------------------|----|-----|--|------------|------------|
| 8108770 | 2009-0063613-A1    | 11/845,538        | US | UTL | Secure Inter-Module Communication Mechanism  | 8/27/2007  | 1/31/2012  |
| 8108771 | 2009-0064183-A1    | 12/207,430        | US | UTL | Secure Inter-Module Communication Mechanism  | 9/9/2008   | 1/31/2012  |
| -       | 2012-0131448 A1    | 13,361,721        | US | UTL | Secure Inter-Module Communication Mechanism  | 1/30/2012  | -          |
| -       | WO 2009/029404 A2  | PCT/US2008/072757 | WO | UTL | Secure Inter-Module Communication Mechanism  | 8/11/2008  | -          |
| 7747680 | US-2009-0112974-A1 | 11/928,167        | US | UTL | Community-based web filtering  | 10/30/2007 | 6/29/2010  |
| -       | 2009-0144263 A1    | 11/950,016        | US | UTL | Search Results Using A Panel   | 12/4/2007  | -          |
| 8402394 | US-2009-0089714-A1 | 11/864,152        | US | UTL | THREE-DIMENSIONAL WEBSITE VISUALIZATION  | 9/28/2007  | 3/19/2013  |
| D598029 | -                  | 29/298,124        | US | DES | Computer Generated Three-Dimensional Sphere And Projection Lines To Adjacent Image For A Portion Of A Display Screen | 11/29/2007 | 8/11/2009  |
| 7908363 | 20090106821        | 11/951,138        | US | UTL | Rate Limiting mechanism for Web services API calls including a Multi-Data center Service deployment scenario         | 12/5/2007  | 3/15/2011  |
| -       | 20090076908        | 11/924,011        | US | UTL | User Generation Of Keywords For Content Authored By Them   | 10/25/2007 | -          |
| 8903792 | 20090049032-A1     | 11/838,850        | US | UTL | Method and System for Intent Queries and Results Toolbar Signature   | 8/14/2007  | 12/2/2014  |
| 7958363 | US-2009-0110199-A1 | 11/924,945        | US | UTL | SYSTEM AND/OR METHOD FOR PROCESSING EVENTS   | 10/26/2007 | 6/7/2011   |
| 7890494 | 2009-0112846       | 11/932,928        | US | UTL | Locating Dense and Isolated Sub-Graphs through Constructing Auxiliary Weighted Graph                                 | 10/31/2007 | 2/15/2011  |
| 7788210 | 2009-0106184       | 11/875,752        | US | UTL | Decentralized record expiry  | 10/19/2007 | 8/31/2010  |
| 7783607 | US-2009-0089313-A1 | 11/863,902        | US | UTL | Creating and Editing Media Objects Using Web Requests  | 9/28/2007  | 8/24/2010  |
| 7840661 | US-2009-0172197-A1 | 11/966,934        | US | UTL | SYSTEM FOR OPINION RECONCILIATION  | 12/28/2007 | 11/23/2010 |
| 7895149 | 2009-0157589       | 11/957,779        | US | UTL | SYNDICATING HUMOR  | 12/17/2007 | 2/22/2011  |
| 8429145 | US- 2009-0164451A1 | 11/963,423        | US | UTL | System and Method for Scheduling Electronic Events   | 12/21/2007 | 4/23/2013  |
| -       | 2009-0165022 A1    | 11/960,368        | US | UTL | System And Method for Contextual Addressing of Communications on a Network   | 12/19/2007 | -          |
| 8671154 | US-2009-0150514-A1 | 11/953,454        | US | UTL | System And Method for Conditional Delivery of Messages   | 12/10/2007 | 3/11/2014  |
| 8307029 | US-2009-0150489-A1 | 11/953,494        | US | UTL | System and Method for Conditional Delivery of Messages   | 12/10/2007 | 11/6/2012  |
| 8799371 | US-2009-0150501-A1 | 12/236,668        | US | UTL | System And Method for Conditional Delivery of Messages   | 9/24/2008  | 8/5/2014   |
| -       | 2013-110948-A1     | 13/661,837        | US | UTL | System and Method for Conditional Delivery of Messages   | 10/26/2012 | -          |
| -       | 2014-0344386 A1    | 14/449,937        | US | UTL | System And Method for Conditional Delivery of Messages   | 8/1/2014   | -          |
| -       | WO 2009/076084     | PCT/US2008/085135 | WO | UTL | Gradient Based Optimization of a Ranking Measure   | 12/1/2008  | -          |
| 7895198 | US-2009-0089274-A1 | 11/863,453        | US | UTL |  | 9/28/2007  | 2/22/2011  |

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|         |                    |                |    |     |  |            |            |
|---------|--------------------|----------------|----|-----|--|------------|------------|
| 8005774 | US-2009-0138463-A1 | 11/946,552     | US | UTL | Determining A Relevance Function Based On A Query Error Derived Using A Structured Output Learning Technique | 11/28/2007 | 8/23/2011  |
| 8275855 | 2009-0164621       | 11/961,006     | US | UTL | Method and system for monitoring rest web services   | 12/20/2007 | 9/25/2012  |
| 8156032 | US-2009-0112653-A1 | 11/933,127     | US | UTL | Auction-Pricing Many Substitute Products   | 10/31/2007 | 4/10/2012  |
| 7844707 | 2009-0164632       | 11/961,629     | US | UTL | Web service multi-key rate limiting method and system  | 12/20/2007 | 11/30/2010 |
| 8108239 | US-2009-0164263-A1 | 11/960,444     | US | UTL | System and Method for Facilitating Trusted Recommendations   | 12/19/2007 | 1/31/2012  |
| 7958088 | 20090157762        | 11/957,132     | US | UTL | Dynamic Data Reorganization to Accommodate Growth Across Replicated Databases                                | 12/14/2007 | 6/7/2011   |
| 7899807 | US 2009-0164425 A1 | 12/004,881     | US | UTL | System and Method for Crawl Ordering by Search Impact  | 12/20/2007 | 3/1/2011   |
| -       | US-2009-0106099-A1 | 11/877,227     | US | UTL | Personal Targeted Advertising  | 10/23/2007 | -          |
| 7970760 | US-2009-0234830-A1 | 12/046,123     | US | UTL | System and method for automatic detection of needy queries   | 3/11/2008  | 6/28/2011  |
| 8312011 | 2011-0218991       | 13/108,233     | US | UTL | System and method for automatic detection of needy queries   | 5/16/2011  | 11/13/2012 |
| 379250  | 200935344          | 97/38149       | TW | UTL | Method and System for Creating Superior Informational Guides   | 10/3/2008  | 12/11/2012 |
| 7962851 | US-2009-0100381-A1 | 11/872,852     | US | UTL | Method and System for Creating Superior Informational Guides   | 10/16/2007 | 6/14/2011  |
| -       | WO 2009/051946 A1  | PCT/US08/77599 | WO | UTL | Methods and apparatus for creating superior similarity via sequence similarity                               | 9/25/2008  | -          |
| 7996349 | US-2009-0164411    | 11/951,146     | US | UTL | Methods and apparatus for computing graph similarity via sequence similarity                                 | 12/5/2007  | 8/9/2011   |
| 8019708 | US-2009-0150371-A1 | 11/951,172     | US | UTL | Similarity Via Signature Similarity  | 12/5/2007  | 9/13/2011  |
| 8880449 | US-2009-0150381    | 12/236,682     | US | UTL | Methods and Apparatus for Computing Graph Similarity Via Signature Similarity                                | 9/24/2008  | 11/4/2014  |
| 8417657 | 2011-0302147       | 13/099,305     | US | UTL | Methods and apparatus for computing graph similarity via sequence similarity                                 | 5/2/2011   | 4/9/2013   |
| 8612409 | US-2009-0157651-A1 | 11/958,913     | US | UTL | Method And Apparatus For Detecting And Explaining Bursty Stream Events In Targeted Groups                    | 12/18/2007 | 12/17/2013 |
| 9053186 | 2014-0164344 A1    | 14/099,521     | US | UTL | Method And Apparatus For Detecting And Explaining Bursty Stream Events In Targeted Groups                    | 12/6/2013  | 6/9/2015   |
| 393017  | -                  | 97140365       | TW | UTL | System and Method for Updating a Search Results Page In Response to a User Map Interaction                   | 10/21/2008 | 4/11/2013  |
| 8108416 | US-2009-0112816-A1 | 11/982,141     | US | UTL | System and Method for Updating a Search Results Page in Response to a User Map Interaction                   | 10/31/2007 | 1/31/2012  |

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|         |                    |                   |    |     |  |                      |
|---------|--------------------|-------------------|----|-----|--|----------------------|
| -       | 2012-0136894       | 13/340,967        | US | UTL | System and Method for Updating a Search Results Page in Response to a User Map Interaction System and method for generating a classifier model | 12/30/2011 -         |
| 7949622 | 2009-0157578       | 11/955,965        | US | UTL | Social News Ranking using Gossip Distance  | 12/13/2007 5/24/2011 |
| 7895284 | 2009-0143051       | 11/947,647        | US | UTL | Social News Ranking Using Gossip Distance  | 11/29/2007 2/22/2011 |
| 8219631 | 2011-0066725       | 12/947,782        | US | UTL | Social News Ranking Using Gossip Distance  | 11/16/2010 7/10/2012 |
| 8370486 | 2012-0041806       | 13/279,188        | US | UTL | Automatic Visual Segmentation of Webpages  | 10/21/2011 2/5/2013  |
| 8255793 | US-2009-0177959A1  | 11/971,160        | US | UTL | Social News Forwarding to Generate Interest Clusters   | 1/8/2008 8/28/2012   |
| 8676887 | 2009-0144377       | 11/948,887        | US | UTL | Virtual billboard display on a mobile device   | 11/30/2007 3/18/2014 |
| 9064019 | 2009-0149199 A1    | 11/951,823        | US | UTL | Virtual billboard display on a mobile device   | 12/6/2007 6/23/2015  |
| -       | 2015-0317685 A1    | 14/747,560        | US | UTL | System And Method For Improving The Performance Of Digital Advertisements  | 6/23/2015 -          |
| -       | 2009-0157442       | 11/955,841        | US | UTL | METHOD AND SYSTEM FOR QUANTIFYING THE QUALITY OF SEARCH RESULTS BASED ON COHESION  | 12/13/2007 -         |
| 7720870 | US-2009-0157652-A1 | 11/959,182        | US | UTL | Sharing Of Content And Hop Distance Over A Social Network  | 12/18/2007 5/18/2010 |
| 7954058 | 2009-0158176       | 11/956,875        | US | UTL | User vaccination detection and response  | 12/14/2007 5/31/2011 |
| 1520089 | 200935347          | 97146874          | TW | UTL | User Vaccination Detection And Response  | 12/3/2008 2/1/2016   |
| 8527623 | US-2009-0164557-A1 | 11/963,493        | US | UTL | User Vaccination Detection and Response  | 12/21/2007 9/3/2013  |
| 8832270 | US 2013-0332285 A1 | 13/968,544        | US | UTL | Creative audit system  | 8/16/2013 9/9/2014   |
| 8538808 | 2008-0147682 A1    | 11/610,699        | US | UTL | System and method for learning and prediction for online advertisements  | 12/14/2006 9/17/2013 |
| -       | -                  | 10/964,961        | US | UTL | Method And System For Pricing Electronic Advertisements  | 10/14/2004 -         |
| -       | 2006-0122879 A1    | 11/006,121        | US | UTL | Method And System For Pricing Electronic Advertisements  | 12/7/2004 -          |
| -       | -                  | PCT/US2005/043071 | WO | UTL | Personal Broadcast (PB) Engine and Network   | 11/29/2005 -         |
| -       | 2009-0157496 A1    | 11/957,052        | US | UTL | Method, computer readable storage medium, and computing systems of method of presenting results of a web page query                            | 12/14/2007 -         |
| 1402702 | -                  | 97149352          | TW | UTL | Systems and Methods for Ranking Attention  | 12/18/2008 7/21/2013 |
| 7769740 | US-2009-0164450-A1 | 11/963,374        | US | UTL | Systems and Methods for Ranking Attention Personalizing Sponsored Search Advertising Layout Using User Behavior History                        | 12/21/2007 8/3/2010  |
| -       | WO 2009/085583     | PCT/US2008/085915 | WO | UTL | Modification Of Content Representation By A Brand Engine In A Social Network   | 12/8/2008 -          |
| -       | -                  | 200980108725      | CN | UTL | Modification Of Content Representation By A Brand Engine In A Social Network   | 2/23/2009 -          |
| -       | 32/2011            | 7665/CHEINP/2010  | IN | UTL | Modification Of Content Representation By A Brand Engine In A Social Network   | 4/7/2009 -           |
| -       | -                  | 10-2013-7013713   | KR | UTL | Modification of content representation by a brand engine in a social network   | 4/7/2009 -           |
| 1398820 | 200949743          | 98113449          | TW | UTL | Modification Of Brand Representations By A Brand Engine In A Social Network  | 4/23/2009 6/11/2013  |
| 9058609 | 2009-0276453 A1    | 12/112,628        | US | UTL | Engine In A Social Network   | 4/30/2008 6/16/2015  |

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|         |                    |                |    |     |   |              |           |
|---------|--------------------|----------------|----|-----|---|--------------|-----------|
| 9262764 | 2009-0276459 A1    | 12/112,843     | US | UTL | Modification Of Content Representation By A Brand Engine In A Social Network                  | 4/30/2008    | 2/16/2016 |
| -       | 2009/134597        | PCT/US09/39802 | WO | UTL | Modification Of Content Representation By A Brand Engine In A Social Network                  | 4/7/2009 -   |           |
| 7805447 | US-2009-0182706-A1 | 12/015,392     | US | UTL | Generating Example Data For Testing Database Queries  | 1/16/2008    | 9/28/2010 |
| -       | -                  | 60/764,067     | US | PRV | Multi network transaction method and system   | 1/31/2006 -  |           |
| -       | -                  | 60/764,068     | US | PRV | Online advertising multi-network transaction method and system                                | 1/31/2006 -  |           |
| -       | -                  | 60/817,848     | US | PRV | Revenue Adjustment Processes  | 6/30/2006 -  |           |
| 8626574 | 20070179856        | 11/669,756     | US | UTL | Revenue Adjustment Processes  | 1/31/2007    | 1/7/2014  |
| -       | 2014-0095301 A1    | 14/096,857     | US | UTL | Revenue Adjustment Processes  | 12/4/2013 -  |           |
| 1467504 | 200941379          | 97147916       | TW | UTL | Advertising Associated with Multimedia Content  | 12/9/2008    | 1/1/2015  |
| -       | US-2009-0150210-A1 | 11/953,715     | US | UTL | Advertising Associated with Multimedia Content  | 12/10/2007 - |           |
| -       | WO 2009/076060     | PCT/US08/84583 | WO | UTL | Advertising Associated with Multimedia Content  | 11/24/2008 - |           |
| 1485638 | 200941381          | 97148033       | TW | UTL | SYSTEM AND METHOD FOR MONETIZATION OF CONTENT   | 12/10/2008   | 5/21/2015 |
| -       | -                  | 104104962      | TW | UTL | System and Device for Monetization of Content   | 2/13/2015 -  |           |
| 8655718 | US-2009-0157450-A1 | 11/959,217     | US | UTL | Methods For Augmenting User-Generated Content Using A Monetizable Feature                     | 12/18/2007   | 2/18/2014 |
| -       | 2014-0108158 A1    | 14/139,373     | US | UTL | Methods For Augmenting User-Generated Content Using A Monetizable Feature                     | 12/23/2013 - |           |
| 7797260 | 20090204703        | 12/029,040     | US | UTL | Automated Document Classifier Tuning  | 2/11/2008    | 9/14/2010 |
| 8930376 | US-2009-0210381-A1 | 12/032,416     | US | UTL | Search Result Abstract Quality Using Community Metadata                                       | 2/15/2008    | 1/6/2015  |
| 8266612 | 2009-0156181       | 11/959,019     | US | UTL | POCKET BROADCASTING FOR MOBILE MEDIA CONTENT  | 12/18/2007   | 9/11/2012 |
| 1502526 | 2009335340         | 97148518       | TW | UTL | Targeted Ad System Using Metadata   | 12/12/2008   | 10/1/2015 |
| -       | 2009-0164301 A1    | 11/963,349     | US | UTL | Targeted Ad System Using Metadata   | 12/21/2007 - |           |
| -       | -                  | PCT/US08/84726 | WO | UTL | Targeted Ad System Using Metadata   | 11/25/2008 - |           |
| 8260882 | 2009-0157845       | 11/957,069     | US | UTL | Sharing Of Multimedia And Relevance Measure Based On Hop Distance In A Social Network         | 12/14/2007   | 9/4/2012  |
| 7895235 | 20090164895        | 11/960,353     | US | UTL | Extracting Semantic Relations from Query Logs   | 12/19/2007   | 2/22/2011 |
| 1402712 | 200935267          | 97147145       | TW | UTL | Method and computer readable media for analyzing user reviews with inferred analytics         | 12/4/2008    | 7/21/2013 |
| 8032471 | US 2009-0164402 A1 | 11/962,597     | US | UTL | System and method for annotating and analyzing reviews with inferred analytics                | 12/21/2007   | 10/4/2011 |
| -       | 2011-0282823 A1    | 13/191,556     | US | UTL | System and method for annotating and analyzing reviews with inferred analytics                | 7/27/2011 -  |           |
| 8364685 | US-2009-0171932-A1 | 11/965,256     | US | UTL | System and method for annotation and ranking of reviews personalized to prior user experience | 12/27/2007   | 1/29/2013 |
| -       | 2013-0138644-A1    | 13/751,506     | US | UTL | System and method for annotation and ranking of reviews personalized to prior user experience | 1/28/2013 -  |           |
| 7877389 | 2009-0157599       | 11/957,150     | US | UTL | Segmentation of Search Topics in Query Logs   | 12/14/2007   | 1/25/2011 |
| 8478737 | 2011-0078147       | 12/965,396     | US | UTL | Segmentation of Search Topics in Query Logs   | 12/10/2010   | 7/2/2013  |

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|            |                    |                   |    |     |   |            |            |
|------------|--------------------|-------------------|----|-----|---|------------|------------|
| 8856097    | 20090192988        | 12/022,980        | US | UTL | System And/Or Method For Obtaining Of User Generated Content Boxes  | 1/30/2008  | 10/7/2014  |
| 7893847    | US-2010-0007525-A1 | 12/169,849        | US | UTL | Real Time Detection Of Parking Space Availability   | 7/9/2008   | 2/22/2011  |
| 8145643    | 2009-0144244       | 11/999,366        | US | UTL | Time based ordering of provided mobile content  | 12/4/2007  | 3/27/2012  |
| 8812511    | 2012-0150868       | 13/401,515        | US | UTL | Time based ordering of provided mobile content  | 2/21/2012  | 8/19/2014  |
| 8055078    | US-2009-0220166-A1 | 12/039,310        | US | UTL | Filter For Blocking Image-Based Spam  | 2/28/2008  | 11/8/2011  |
| 8005775    | US-2009-0240643-A1 | 12/050,436        | US | UTL | System and method for detecting human judgment drift and variation control.   | 3/18/2008  | 8/23/2011  |
| -          | 2009-0204474 A1    | 12/028,712        | US | UTL | Method And System For Presenting Targeted Advertisements  | 2/8/2008   | -          |
| 7933884    | US-2009-0193014-A1 | 12/022,939        | US | UTL | Apparatus And Methods For Tracking, Querying, And Visualizing Behavior Targeting Processes  | 1/30/2008  | 4/26/2011  |
| 7849146    | 2009-0216841       | 12/035,371        | US | UTL | Identifying IP addresses for spammers   | 2/21/2008  | 12/7/2010  |
| 10-1208749 | -                  | 10-2010-7020488   | KR | UTL | Efficient Compression of Applications   | 1/14/2009  | 11/29/2012 |
| 8813041    | 2009-0210856       | 12/031,544        | US | UTL | Efficient compression of applications   | 2/14/2008  | 8/19/2014  |
| -          | 2009/102522        | PCT/US09/31006    | WO | UTL | Efficient Compression of Mobile Applications  | 1/14/2009  | -          |
| 1439934    | 200945194          | 97149355          | TW | UTL | Method, media ecosystem, and computer readable media for collecting media consumption information and displaying media recommendation to a user | 12/18/2008 | 6/1/2014   |
| 8375131    | US-2009-0164641    | 11/962,747        | US | UTL | Media Toolbar and Aggregated/Distributed Media Ecosystem  | 12/21/2007 | 2/12/2013  |
| -          | 2013-0185422 A1    | 13/727,443        | US | UTL | Media Toolbar and Aggregated/Distributed Media Ecosystem  | 12/26/2012 | -          |
| 8060455    | WO 2009/085582     | PCT/US2008/085909 | WO | UTL | Media Toolbar and Aggregated/Distributed Media Ecosystem  | 12/8/2008  | -          |
| 7962468    | US-2009-0265383-A1 | 12/104,954        | US | UTL | Hot Term Prediction for Contextual Shortcuts  | 12/31/2007 | 11/15/2011 |
| 8037079    | US-2009-0265351-A1 | 12/104,965        | US | UTL | System And Method For Providing Image Labeling Game Using CBIR  | 4/17/2008  | 6/14/2011  |
| 8219492    | US-2009-0157559-A1 | 11/958,300        | US | UTL | System And Method For Accelerating Editorial Processes For Unsafe Content Labeling Using CBIR   | 4/17/2008  | 10/11/2011 |
| 7870131    | 20090157646        | 11/956,055        | US | UTL | System and Method for Internet Marketing by Endorsements  | 12/17/2007 | 7/10/2012  |
| 1415021    | -                  | 97146875          | TW | UTL | Mitigation of Search Engine Hijacking   | 12/13/2007 | 1/11/2011  |
| 8843406    | 2009-0171748 A1    | 11/965,509        | US | UTL | Method, System and Computer Program Product for Using Product and Social Network Data to Improve Online Advertising                             | 12/3/2008  | 11/11/2013 |
| 8650144    | 2009-0210470 A1    | 12/031,127        | US | UTL | Using Product and Social Network Data To Improve Online Advertising   | 12/27/2007 | 9/23/2014  |
| 8429176    | US-2009-0248610-A1 | 12/057,587        | US | UTL | Apparatus And Methods For Lossless Compression Of Numerical Attributes In Rule Based Systems  | 2/14/2008  | 2/11/2014  |
|            |                    |                   |    |     | Extending Media Annotations Using Collective Knowledge  | 3/28/2008  | 4/23/2013  |

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|              |                    |                   |    |     |  |            |            |
|--------------|--------------------|-------------------|----|-----|--|------------|------------|
| 7831588      | US-2009-0198672-A1 | 12/026,053        | US | UTL | Context-Sensitive Query Expansion  | 2/5/2008   | 11/9/2010  |
| 7908238      | -                  | 11/848,688        | US | UTL | Prediction Engines<br>Systems and methods of predicting resource usefulness using universal resource locators including counting the number of times URL features occur in training data | 8/31/2007  | 3/15/2011  |
| 7908234      | US-2009-0210369-A1 | 12/032,111        | US | UTL | Access to Trusted User-Generated Content Using Social Networks   | 2/15/2008  | 3/15/2011  |
| 200980110967 | CN 101981590 A     | 200980110967      | CN | UTL | Social Networks  | 2/25/2009  | 9/11/2013  |
| -            | -                  | 9/709581          | EP | UTL | Social Network Search  | 1/15/2009  | -          |
| 1152575      | HK1152575          | 11106605          | HK | UTL | Social Network Search  | 1/15/2009  | 11/1/2013  |
| -            | 14/2011            | 5696/CHEINP/2010  | IN | UTL | Social Network Search  | 1/15/2009  | -          |
| 10-1154686   | -                  | 10-2010-7020233   | KR | UTL | Social Network Search  | 1/15/2009  | 6/1/2012   |
| 1402700      | 200943104          | 98103830          | TW | UTL | Social Network Search  | 2/6/2009   | 7/21/2013  |
| 8195656      | 2009-0204601       | 12/030,715        | US | UTL | Social Network Search  | 2/13/2008  | 6/5/2012   |
| 13881        | 26706              | 1-2010-02374      | VN | UTL | Social Network Search  | 1/15/2009  | 3/17/2015  |
| -            | WO 2009/102527     | PCT/US09/31107    | WO | UTL | Social Network Search  | 1/15/2009  | -          |
| 8312380      | US-2009-0254840-A1 | 12/098,326        | US | UTL | Local Map Chat   | 4/4/2008   | 11/13/2012 |
| 8296177      | US-2009-0210288-A1 | 12/034,616        | US | UTL | Method For Generating Forecasting Landscapes   | 2/20/2008  | 10/23/2012 |
| -            | 2009-0254414 A1    | 12/099,039        | US | UTL | Method and system for managing advertisement quality of sponsored advertisements   | 4/7/2008   | -          |
| 8156053      | US-2009-0281970-A1 | 12/118,339        | US | UTL | Automated Tagging of Documents   | 5/9/2008   | 4/10/2012  |
| 8135707      | 2009-0248658 A1    | 12/056,422        | US | UTL | Using Embedded Metadata To Improve Search Result Presentation  | 3/27/2008  | 3/13/2012  |
| -            | 2009-0287566 A1    | 12/121,659        | US | UTL | User Experience of Advertisements By Allowing Users to Identify Advertisements that Users Dislike  | 5/15/2008  | -          |
| 7769746      | US-2009-0182729-A1 | 12/015,448        | US | UTL | Local query identification and normalization for web search  | 1/16/2008  | 8/3/2010   |
| 7974971      | 2010-0257150       | 12/818,036        | US | UTL | Query Identification and Normalization for Web Search  | 6/17/2010  | 7/5/2011   |
| 8296288      | -                  | 13/175,797        | US | UTL | Query Processing for Web Search  | 7/1/2011   | 10/23/2012 |
| 8452768      | 20090157676        | 11/958,097        | US | UTL | Using User Search Behavior To Plan Online Advertising Campaigns  | 12/17/2007 | 5/28/2013  |
| 7805429      | US-2009-0192984-A1 | 12/021,588        | US | UTL | Personalized Ad Delivery When Ads Fatigue Method, System and Computer-Readable Medium for Third-party Information Overlay on Search Results  | 1/29/2008  | 9/28/2010  |
| 1477992      | 200943099          | 97147144          | TW | UTL | Third-party Information Overlay on Search Results  | 12/4/2008  | 3/21/2015  |
| -            | US-2009-0144264-A1 | 11/950,398        | US | UTL | Third-Party Information Overlay on Search Results  | 12/4/2007  | -          |
| -            | -                  | PCT/US2008/013439 | WO | UTL | Third-Party Information Overlay on Search Results  | 12/4/2008  | -          |
| -            | 2009-0177644 A1    | 11/969,751        | US | UTL | Systems and Methods of Mapping Attention   | 1/4/2008   | -          |
| -            | 48/2010            | 1668/MUMNP/2010   | IN | UTL | Interest Mapping System  | 12/23/2008 | -          |
| -            | 2009335307         | 97151554          | TW | UTL | Interest mapping system  | 12/31/2008 | -          |
| -            | 2009-0176509 A1    | 11/969,815        | US | UTL | Interest Mapping System  | 1/4/2008   | -          |
| -            | 24729              | 1-2010-01916      | VN | UTL | Interest Mapping System  | 12/23/2008 | -          |



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|         |                    |                  |    |     |  |                       |
|---------|--------------------|------------------|----|-----|--|-----------------------|
| -       | 2009/088782        | PCT/US2008/88228 | WO | UTL | Interest Mapping System<br>Reduction Of Annotations To Extract Structured<br>Web Data  | 12/23/2008 -          |
| 8046360 | 20090157597        | 11/956,130       | US | UTL | System and method for detecting templates of a<br>website using hyperlink analysis   | 12/13/2007 10/25/2011 |
| 7962523 | US-2009-0259649-A1 | 12/101,293       | US | UTL | Apparatus, Method, and Manufacture for<br>Managing Scalable and Traceable Exchanges of<br>Content Between Advertisers and Publishers for<br>Mobile Devices | 4/11/2008 6/14/2011   |
| 8391798 | US 2010-0069096 A1 | 12/211,730       | US | UTL | Apparatus, Method, and Manufacture for<br>Managing Scalable and Traceable Exchanges of<br>Content Between Advertisers and Publishers for<br>Mobile Devices | 9/16/2008 3/5/2013    |
| -       | -                  | PCT/US09/54698   | WO | UTL | Unsupervised Detection Of Web Pages<br>Corresponding To A Similarity Class   | 8/21/2009 -           |
| 7707229 | 20090157607        | 11/955,129       | US | UTL | Unsupervised Detection Of Web Pages<br>Corresponding To A Similarity Class   | 12/12/2007 4/27/2010  |
| 7941421 | 20100161588        | 12/716,195       | US | UTL | Generating Document Templates That Are Robust<br>To Structural Variations  | 3/2/2010 5/10/2011    |
| 7668942 | 2009-0276506       | 12/114,568       | US | UTL | Structural Clustering And Template Identification<br>For Electronic Documents  | 5/2/2008 2/23/2010    |
| 8239387 | 20090216708        | 12/035,948       | US | UTL | Graphical Rating Conversion  | 2/22/2008 8/7/2012    |
| 8170349 | US/2009/0238469    | 12/050,817       | US | UTL | Information Retrieval Using Dynamic Guided<br>Navigation   | 3/18/2008 5/1/2012    |
| -       | 2009-0248666 A1    | 12/060,094       | US | UTL | System and Method for Modeling Relationships<br>Between Entities   | 3/31/2008 -           |
| 8271506 | US-2009-0248738    | 12/059,594       | US | UTL | System and Method for Modeling Relationships<br>Between Entities   | 3/31/2008 9/18/2012   |
| 8386499 | 2012-0310612       | 13/589,786       | US | UTL | System and Method for Modeling Relationships<br>Between Entities   | 8/20/2012 2/26/2013   |
| 9020960 | 2014-0067875 A1    | 13/777,739       | US | UTL | System and Method for Modeling Relationships<br>Between Entities   | 2/26/2013 4/28/2015   |
| 8589486 | US-2009-0248694-A1 | 12/057,878       | US | UTL | System and Method for Addressing<br>Communications   | 3/28/2008 11/19/2013  |
| 8745133 | US-2009-0248711-A1 | 12/057,943       | US | UTL | System and Method for Optimizing the Storage of<br>Data  | 3/28/2008 6/3/2014    |
| -       | 2009-0248633 A1    | 12/060,120       | US | UTL | System And Method For Direct Display Of<br>Coupons Within Search Result Sets   | 3/31/2008 -           |
| -       | 2009-0319288       | 12/145,436       | US | UTL | Suggesting Contacts for Social Networks  | 6/24/2008 -           |
| 7953777 | US-2009-0271416-A1 | 12/110,144       | US | UTL | Method And System For Retrieving and Organizing<br>Web Media   | 4/25/2008 5/31/2011   |
| 7895172 | 2009-0210428       | 12/070,604       | US | UTL | System and method for writing data dependent<br>upon multiple reads in a distributed database  | 2/19/2008 2/22/2011   |
| -       | 2009-0018907 A1    | 11/776,150       | US | UTL | Managing Impression Defaults   | 7/11/2007 -           |
| 8468049 | US 2009-0210270    | 12/034,583       | US | UTL | Systems And Methods For Providing Direct<br>Communication From Personalized Targeted<br>Advertisements   | 2/20/2008 6/18/2013   |

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|-------------------|--------------------|-------------------|----|-----|---|------------|------------|
| ZL200980113376.0  | 102007494 A        | 200980113376      | CN | UTL | System and Method for Trail Identification with Search Results  | 4/1/2009   | 11/12/2014 |
| -                 | 45/2011            | 419/CHENP/2011    | IN | UTL | Mobile Imaging Device as Navigator  | 5/20/2009  | -          |
| 10-1186025        | -                  | 10-2011-7001509   | KR | UTL | Mobile Imaging Device as Navigator  | 5/20/2009  | 9/19/2012  |
| 1418763           | -                  | 98117952          | TW | UTL | Mobile Imaging Device as Navigator  | 6/1/2009   | 12/11/2013 |
| 8098894           | 2009-0316951       | 12/143,527        | US | UTL | Mobile Imaging Device as Navigator  | 6/20/2008  | 1/17/2012  |
| 8478000           | 2012-0020522       | 13/252,003        | US | UTL | Mobile Imaging Device as Navigator  | 10/3/2011  | 7/2/2013   |
| 8798323           | 2012-0299960       | 13/570,070        | US | UTL | Mobile Imaging Device as Navigator  | 8/8/2012   | 8/5/2014   |
| 8897498           | 2013-0144905 A1    | 13/764,172        | US | UTL | Mobile Imaging Device as Navigator  | 2/11/2013  | 11/25/2014 |
| -                 | 2009-0182759       | 12/013,289        | US | UTL | EXTRACTING ENTITIES FROM A WEB PAGE<br>ADVERTISEMENTS ON MOBILE DEVICES<br>USING INTEGRATIONS WITH MOBILE<br>APPLICATIONS                                 | 1/11/2008  | -          |
| -                 | 42/2010            | 3135/CHENP/2010   | IN | UTL | ADVERTISEMENTS ON MOBILE DEVICES<br>USING INTEGRATIONS WITH MOBILE<br>APPLICATIONS  | 10/28/2008 | -          |
| 10-1163884        | -                  | 10-2010-7010618   | KR | UTL | Method for delivering advertisements to mobile devices and mobile devices for receiving advertisements  | 10/28/2008 | 7/2/2012   |
| 1387932           | 200937327          | 97141803          | TW | UTL | ADVERTISEMENTS ON MOBILE DEVICES<br>USING INTEGRATIONS WITH MOBILE<br>APPLICATIONS  | 10/30/2008 | 3/1/2013   |
| 8275419           | US 2009/0125376 A1 | 11/939,685        | US | UTL | ADVERTISEMENTS ON MOBILE DEVICES<br>USING INTEGRATIONS WITH MOBILE<br>APPLICATIONS  | 11/14/2007 | 9/25/2012  |
| 8583188           | 2013/0045778 A1    | 13/598,062        | US | UTL | ADVERTISEMENTS ON MOBILE DEVICES<br>USING INTEGRATIONS WITH MOBILE<br>APPLICATIONS  | 8/29/2012  | 11/12/2013 |
| -                 | WO 2009/064609 A2  | PCT/US08/81445    | WO | UTL | Ranking Advertisements with Pseudo-Relevance Feedback and Translation Models  | 10/28/2008 | -          |
| -                 | 2009/0248662       | 12/059,098        | US | UTL | Search Engine Configured To Minimize Performance Degradation Under High Load Modification Of Content Representation By A Brand Engine In A Social Network | 3/31/2008  | -          |
| 8108340           | 20090248629        | 12/058,385        | US | UTL | Access to Trusted User-Generated Content Using Social Networks  | 3/28/2008  | 1/31/2012  |
| ZL 200980114573.4 | CN 102016904A      | 200980114573      | CN | UTL | Access to Trusted User-Generated Content Using Social Networks  | 4/7/2009   | 8/19/2015  |
| 1153836           | HK1153836          | 11107916          | HK | UTL | Access to Trusted User-Generated Content Using Social Networks  | 2/25/2009  | 4/11/2014  |
| -                 | 26/2011            | 6733/CHENP/2010   | IN | UTL | Access to Trusted User-Generated Content Using Social Networks  | 2/25/2009  | -          |
| 10-1171599        | -                  | 10-2010-7024358   | KR | UTL | Access to trusted user-generated content using social networks  | 2/25/2009  | 7/27/2012  |
| 1401573           | 200949566          | 98109865          | TW | UTL | Access to Trusted User-Generated Content Using Social Networks  | 3/26/2009  | 7/11/2013  |
| 8250096           | 2009/0249451       | 12/059,711        | US | UTL | Access to Trusted User-Generated Content Using Social Networks  | 3/31/2008  | 8/21/2012  |
| -                 | WO2009/145812      | PCT/US2009/001218 | WO | UTL | Access to Trusted User-Generated Content Using Social Networks  | 2/25/2009  | -          |

SCHEDULE OF ASSETS

|                   |                    |                    |                 |                |     |  |  |            |            |
|-------------------|--------------------|--------------------|-----------------|----------------|-----|--|--|------------|------------|
| -                 | 7974940            | US-2009-0248667-A1 | 2009-0292722    | 12/060,068     | US  | UTL  | Cross-domain Matching System   | 3/31/2008  | -          |
| -                 | 8644808            | US-2009-0247140-A1 | 12/125,691      | 12/059,460     | US  | UTL  | Real Time Expert Dialog Service  | 5/22/2008  | 7/5/2011   |
| -                 | 1468970            | 2014-0114762 A1    | 200928847       | 14/143,872     | US  | UTL  | System for Providing Mobile Advertisement                                | 3/31/2008  | 2/4/2014   |
| -                 | 8799069            | US-2009-0164269-A1 | 2014-0310095 A1 | 97145066       | TW  | UTL  | Actions  | 12/30/2013 | -          |
| -                 | 8196095            | US-2009-0197580-A1 | PCT/US08/84489  | 11/963,165     | US  | UTL  | System for Providing Mobile Advertisement                                | 11/21/2008 | 1/11/2015  |
| 7949643           | US-2009-0271391-A1 | 12/111,257         | 14/316,413      | 12/026,515     | US  | UTL  | Mobile Click Fraud Prevention  | 12/21/2007 | 8/5/2014   |
| 8290927           | 2011-0196860       | 13/089,391         | PCT/US08/84489  | 12/026,515     | US  | UTL  | Mobile Click Fraud Prevention  | 6/26/2014  | -          |
| 2009223819        | -                  | 2009223819         | 2009223819      | 12/026,515     | US  | UTL  | Mobile Marketing Application   | 11/24/2008 | -          |
| ZL 200980121916.X | 102067163A         | 200980121916.X     | 9720414         | 12/111,257     | US  | UTL  | Method And Apparatus For Rating User Generated Content In Search Results | 4/29/2008  | 5/24/2011  |
| -                 | -                  | -                  | 9720414         | 13/089,391     | US  | UTL  | Method And Apparatus For Rating User Generated Content In Search Results | 4/19/2011  | 10/16/2012 |
| -                 | 1153013            | 11107045           | 6492/CHEMP/2010 | 2009223819     | AU  | UTL  | Search Results   | 2/20/2009  | 9/25/2014  |
| -                 | 23/2011            | 6492/CHEMP/2010    | 10-2010-7020248 | 2009223819     | US  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 2/20/2009  | -          |
| 10-1273126        | 10-2010-0114127    | 10-2010-7020248    | 201005889-9     | 201005889-9    | EP  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 2/20/2009  | -          |
| 163968            | -                  | 201005889-9        | 98104596        | 98104596       | HK  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 2/20/2009  | -          |
| 1397826           | 200943106          | 98104596           | 12/047,069      | 12/047,069     | IN  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 2/20/2009  | -          |
| 8412702           | 20090234834        | 12/047,069         | PCT/US09/01119  | PCT/US09/01119 | SG  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 2/20/2009  | -          |
| -                 | -                  | PCT/US09/01119     | WO              | WO             | TW  | UTL  | System, Method, and/or Apparatus For Reordering Search Results           | 3/12/2008  | 4/2/2013   |
| 7849076           | US-2009-0248668-A1 | 12/060,195         | US              | US             | UTL | Learning Ranking Functions Incorporating Isotonic Regression For Information Retrieval And Ranking                       | 3/31/2008  | 12/7/2010  |            |
| 8051072           | US-2009-0248667-A1 | 12/060,179         | US              | US             | UTL | Learning Ranking Functions Incorporating Boosted Ranking In A Regression Framework For Information Retrieval And Ranking | 3/31/2008  | 11/1/2011  |            |
| 200980123322      | CN 102067164A      | 200980123322       | CN              | CN             | UTL | Mobile Imaging Device as Navigator   | 5/20/2009  | 1/9/2013   |            |
| -                 | -                  | 9722493            | EP              | EP             | UTL | Personalizing Sponsored Search Advertising   | 2/23/2009  | -          |            |
| -                 | -                  | -                  | HK              | HK             | UTL | Layout Using User Behavior History   | -  | -          |            |

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REEL: 054675 FRAME: 0103

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|                   |                    |                 |    |     |  |                      |
|-------------------|--------------------|-----------------|----|-----|--|----------------------|
| -                 | 24/2011            | 6597/CHENP/2010 | IN | UTL | Personalizing Sponsored Search Advertising Layout Using User Behavior History  | 2/23/2009 -          |
| 10-1154647        | -                  | 10-2010-7023153 | KR | UTL | Personalizing Sponsored Search Advertising Layout Using User Behavior History  | 2/23/2009 6/1/2012   |
| 1456518           | 200951860          | 98106125        | TW | UTL | Personalizing Sponsored Search Advertising Layout using User Behavior History  | 2/26/2009 10/11/2014 |
| 8762364           | US-2009-0240677-A1 | 12/050,846      | US | UTL | Personalizing Sponsored Search Advertising Layout using User Behavior History  | 3/18/2008 6/24/2014  |
| 8060579           | -                  | 12/484,111      | US | UTL | User location dependent DNS Lookup Method For Segmenting Webpages By Parsing Webpages Into Document Object Modules (DOMS) And Creating Weighted Graphs | 6/12/2009 11/15/2011 |
| 7974934           | 2009-0248608-A1    | 12/058,622      | US | UTL | Classifying Content Resources Using Structured Patterns  | 3/28/2008 7/5/2011   |
| 8005862           | US 2009/0240729 A1 | 12/052,679      | US | UTL | Annotations of Third Party Content   | 3/20/2008 8/23/2011  |
| -                 | 2009-0271388 A1    | 12/108,444      | US | UTL | System For Query Scheduling to Maximize Work Sharing   | 4/23/2008 -          |
| 7877380           | US-2009-0216718-A1 | 12/036,956      | US | UTL | System and Method for Automatically Ranking Lines of Text  | 2/25/2008 1/25/2011  |
| 8005845           | US-2009-0292683-A1 | 12/124,086      | US | UTL | Research Tool Access Based On Research Session Detection   | 5/20/2008 8/23/2011  |
| ZL 200980128726.0 | 102105878 A        | 200980128726    | CN | UTL | System and Method for Trail Identification with Search Results   | 7/27/2009 6/10/2015  |
| -                 | 26/2011            | 6774/CHENP/2010 | IN | UTL | System and Method for Trail Identification with Search Results   | 4/1/2009 -           |
| 1471737           | -                  | 98107979        | TW | UTL | System and Method for Trail Identification with Search Results   | 3/12/2009 2/1/2015   |
| 8589395           | US-2009-0259632-A1 | 12/103,527      | US | UTL | System and Method for Trail Identification with Search Results   | 4/15/2008 11/19/2013 |
| -                 | -                  | 14/036,302      | US | UTL | System and Method for Trail Identification with Search Results   | 9/25/2013 -          |
| -                 | WO 2009/129048 A3  | PCT/US09/39096  | WO | UTL | System and Method for Classifying Tags of Content Using a Hyperlinked Corpus of Classified Web Pages   | 4/1/2009 -           |
| 8046361           | US 2009-0265315 A1 | 12/106,202      | US | UTL | Automated System And Method For Creating A Content-Rich Site Based on An emerging Subject of Internet Search   | 4/18/2008 10/25/2011 |
| 8271474           | US-2009-0327275-A1 | 12/165,548      | US | UTL | Navigation Assistance For Search Engines   | 6/30/2008 9/18/2012  |
| 7949647           | US-2010-0131902-A1 | 12/324,680      | US | UTL | Navigation Assistance For Search Engines   | 11/26/2008 5/24/2011 |
| 8484184           | 2011-0202520       | 13/095,491      | US | UTL | Associating Objects in Databases by Rate-based Tagging   | 4/27/2011 7/9/2013   |
| 8713009           | 2010-0082576 A1    | 12/238,324      | US | UTL | Automated System and Method for Creating a Web Site Based on a Subject Using Information Available on the Internet                                     | 9/25/2008 4/29/2014  |
| -                 | 2009-0327923 A1    | 12/165,537      | US | UTL | Automated Tagging Of Objects In Databases  | 6/30/2008 -          |
| 8407216           | US-2010-0082575-A1 | 12/238,320      | US | UTL | Automated Tagging Of Objects In Databases  | 9/25/2008 3/26/2013  |

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|            |                    |                   |    |     |  |              |            |
|------------|--------------------|-------------------|----|-----|--|--------------|------------|
| 8001106    | 2009-0327304       | 12/163,898        | US | UTL | Systems and Methods for Tokenizing and Interpreting Uniform Resource Locators                                    | 6/27/2008    | 8/16/2011  |
| 8744976    | 2009-0271370       | 12/111,050        | US | UTL | Discovery Of Friends Using Social Network Graph Properties   | 4/28/2008    | 6/3/2014   |
| 8301437    | US-2010-0023514-A1 | 12/178,775        | US | UTL | Tokenization Platform  | 7/24/2008    | 10/30/2012 |
| 9195738    | 2012-0310630 A1    | 13/572,825        | US | UTL | Tokenization Platform  | 8/13/2012    | 11/24/2015 |
| 8893131    | 20090260016        | 12/101,443        | US | UTL | System and/or Method for Bulk Loading of Records into an Ordered Distributed Database                            | 4/11/2008    | 11/18/2014 |
| 1421713    | -                  | 98104285          | TW | UTL | System and/or Method for Personalization of Searches   | 2/11/2009    | 1/1/2014   |
| 9043313    | 2009-0222431 A1    | 12/039,419        | US | UTL | System and/or Method for Personalization of Searches   | 2/28/2008    | 5/26/2015  |
| -          | -                  | PCT/US09/33120    | WO | UTL | Research Tool Access Based On Research Session Detection   | 2/4/2009 -   |            |
| 2009276771 | -                  | 2009276771        | AU | UTL | Research tool access based on research session detection   | 7/27/2009    | 3/25/2013  |
| 2013201484 | -                  | 2013201484        | AU | UTL | Federated Community Search   | 7/27/2009    | 9/17/2015  |
| -          | CN102105879        | 200980128749 CN   | CN | UTL | Research Tool Access Based On Research Session Detection   | 7/23/2009 -  |            |
| -          | 2318958            | 9803424           | EP | UTL | Research Tool Access Based On Research Session Detection   | 7/27/2009 -  |            |
| 10-1520194 | -                  | 10-2013-7003468   | KR | UTL | Research Tool Access Based On Research Session Detection   | 7/27/2009    | 5/7/2015   |
| 8832098    | US-2010-0030736-A1 | 12/181,912        | US | UTL | Research Tool Access Based On Research Session Detection   | 7/29/2008    | 9/9/2014   |
| -          | WO 2010/014525     | PCT/US09/51808    | WO | UTL | Research Tool Access Based On Research Session Detection   | 7/27/2009 -  |            |
| 1406141    | -                  | 98124769 TW       | TW | UTL | Building A Research Document Based On Implicit/Explicit Actions  | 7/22/2009    | 8/21/2013  |
| -          | 2010-0030763 A1    | 12/181,796        | US | UTL | Building A Research Document Based On Implicit/Explicit Actions  | 7/29/2008 -  |            |
| 1416355    | 201030542          | 98137070          | TW | UTL | System, method and computer-readable storage medium for url based query for retrieving data related to a context | 11/2/2009    | 11/21/2013 |
| 8032508    | US-2010-0125604-A1 | 12/273,259        | US | UTL | System and Method for URL Based Query for Retrieving Data Related to a Context                                   | 11/18/2008   | 10/4/2011  |
| -          | 2010/059309        | PCT/US2009/060379 | WO | UTL | System and Method for URL Based Query for Retrieving Data Related to a Context                                   | 10/12/2009 - |            |
| 8775465    | US-2010-0030813-A1 | 12/182,750        | US | UTL | Automatic Updating Of Content Included In Research Documents   | 7/30/2008    | 7/8/2014   |
| -          | 2010-0031190 A1    | 12/181,949        | US | UTL | System And Method For Copying Information Into A Target Document   | 7/29/2008 -  |            |
| 8374913    | US-2009-0254415-A1 | 12/099,042        | US | UTL | Method and System for Comparing Effects of Audio-Visual Ads on Internet Searches                                 | 4/7/2008     | 2/12/2013  |
| 9135328    | 2009-0276399 A1    | 12/112,721        | US | UTL | Ranking Documents Through Contextual Shortcuts   | 4/30/2008    | 9/15/2015  |

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|                  |                    |                    |    |     |  |            |           |
|------------------|--------------------|--------------------|----|-----|--|------------|-----------|
| 1485569          | 200949584          | 98112989           | TW | UTL | Method and System For Generating Topic Pages   | 4/20/2009  | 5/21/2015 |
| -                | 2009-0282013 A1    | 12/116,195         | US | UTL | Algorithmically Generated Topic Pages  | 5/6/2008   | -         |
| -                | -                  | PCT/US09/02241     | WO | UTL | ALGORITHMICALLY GENERATED TOPIC PAGES  | 4/8/2009   | -         |
| 8010544          | 2009-0307256       | 12/135,070         | US | UTL | Inverted Indices in Information Extraction to Improve Records Extracted per Annotation       | 6/6/2008   | 8/30/2011 |
| -                | 49/2010            | 4781/CHENP/2010    | IN | UTL | System and Method for Delivery of Augmented Messages   | 12/16/2008 | -         |
| 1454099          | 200947976          | 97/51267           | TW | UTL | System and method for delivery of augmented messages   | 12/29/2008 | 9/21/2014 |
| -                | -                  | 61/019,132         | US | PRV | System and Method for Delivery of Augmented Messages   | 1/4/2008   | -         |
| 7925708          | US-2009-0177745-A1 | 12/131,447         | US | UTL | System and Method for Delivery of Augmented Messages   | 6/2/2008   | 4/12/2011 |
| 8166124          | -                  | 13/079,508         | US | UTL | System and Method for Delivery of Augmented Messages   | 4/4/2011   | 4/24/2012 |
| -                | 2012-0203853       | 13/451,995         | US | UTL | System and Method for Delivery of Augmented Messages   | 4/20/2012  | -         |
| -                | WO 2009/088664     | PCT/US2008/0886948 | WO | UTL | System and Method for Delivery of Augmented Messages   | 12/16/2008 | -         |
| 7941340          | US-2010-0082441-A1 | 12/242,645         | US | UTL | Decompilation Used To Generate Dynamic Data Driven Advertisements                            | 9/30/2008  | 5/10/2011 |
| 8726290          | 20090313635        | 12/138,393         | US | UTL | System and/or method for balancing allocation of data among reduce processes by reallocation | 6/12/2008  | 5/13/2014 |
| 8181178          | 2010-0042998       | 12/192,106         | US | UTL | Online Batch Execution   | 8/14/2008  | 5/15/2012 |
| -                | -                  | 1107040            | EP | UTL | Technique for license management and online software license enforcement                     | 3/21/2001  | -         |
| 7890430          | US-2009-0187995-A1 | 12/349,304         | US | UTL | Technique for license management and online software license enforcement                     | 1/6/2009   | 2/15/2011 |
| 8108323          | 2009-0287618 A1    | 12/123,270         | US | UTL | Distributed Personal Spam Filtering  | 5/19/2008  | 1/31/2012 |
| 8095540          | 20090265303        | 12/104,168         | US | UTL | IDENTIFYING SUPERPHRASES OF TEXT   | 4/16/2008  | 1/10/2012 |
| 8655902          | 2012-0078935 A1    | 13/313,852         | US | UTL | IDENTIFYING SUPERPHRASES OF TEXT   | 12/7/2011  | 2/18/2014 |
| 7809715          | US 2009/0259629 A1 | 12/103,126         | US | UTL | STRINGS  | 4/15/2008  | 10/5/2010 |
| 8204874          | 2011-0010353       | 12/884,708         | US | UTL | Abbreviation Handling in Web Search  | 9/17/2010  | 6/19/2012 |
| ZL200980132520.5 | 102132308A         | 200980132521       | CN | UTL | Information Sharing In An Online Community   | 8/12/2009  | 3/27/2013 |
| -                | 49/2010            | 5273/CHENP/2010    | IN | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network                                    | 8/24/2010  | -         |
| 10-1185672       | 1020100117658      | 10-2010-7019986    | KR | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network                                    | 2/2/2009   | 9/18/2012 |
| 10-1251861       | -                  | 10-2012-7010464    | KR | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network                                    | 2/2/2009   | 4/1/2013  |
| 10-1385341       | -                  | 10-2012-7024272    | KR | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network                                    | 2/2/2009   | 4/8/2014  |

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|          |                    |                |    |     |  |            |            |
|----------|--------------------|----------------|----|-----|--|------------|------------|
| 1-412292 | -                  | 98103636       | TW | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network  | 2/5/2009   | 10/11/2013 |
| 8045482  | US-2009-0201850-A1 | 12/028,422     | US | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network  | 2/8/2008   | 10/25/2011 |
| -        | -                  | PCT/US09/32854 | WO | UTL | Location Tracking Based On Proximity-Based Ad Hoc Network  | 2/2/2009   | -          |
| 8060018  | US-2009-0201896-A1 | 12/028,552     | US | UTL | Data Sharing Based On Proximity-Based Ad Hoc Network   | 2/8/2008   | 11/15/2011 |
| 7822564  | US-2009-0204348-A1 | 12/028,579     | US | UTL | Power Management For Proximity-Based Ad Hoc Networks   | 2/8/2008   | 10/26/2010 |
| 87566030 | US-2009-0204354-A1 | 12/028,607     | US | UTL | Time Code Validation And Correction For Proximity-Based Ad Hoc Networks  | 2/8/2008   | 6/17/2014  |
| -        | 2014-0287782 A1    | 14/298,636     | US | UTL | Time Code Validation And Correction For Proximity-Based Ad Hoc Networks  | 6/6/2014   | -          |
| 8051032  | 2010-0030793       | 12/184,183     | US | UTL | System and Method for Loading Records into a Partitioned Database Table  | 7/31/2008  | 11/1/2011  |
| 7966325  | 2010-0082593-A1    | 12/237,336     | US | UTL | System and Method for Ranking Search Results Using Social Information  | 9/24/2008  | 6/21/2011  |
| 8504558  | 2010-0030717-A1    | 12/184,114     | US | UTL | Framework To Evaluate Content Display Policies Meeting Scheduler   | 7/31/2008  | 8/6/2013   |
| -        | 2010-0125479 A1    | 12/271,767     | US | UTL | Meeting Scheduler  | 11/14/2008 | -          |
| 8725752  | 2012-0166445       | 13/414,004     | US | UTL | Method, Apparatus and Computer Readable Medium for Indexing Advertisements to Combine Relevance with Consumer Click Feedback | 3/7/2012   | 5/13/2014  |
| -        | 2014-0108417 A1    | 14/104,953     | US | UTL | Method and Apparatus for Web Ad Matching   | 12/12/2013 | -          |
| 8156421  | US-2009-0327854-A1 | 12/135,552     | US | UTL | Analysis of Database Performance Reports for Graphical Presentation of Summary Results                                       | 6/30/2008  | 4/10/2012  |
| 8831276  | US-2010-0177938-A1 | 12/353,055     | US | UTL | Media Object Metadata Engine Configured To Determine Relationships Between Persons   | 1/13/2009  | 9/9/2014   |
| 7949672  | US-2009-0307198-A1 | 12/136,279     | US | UTL | Identifying Regional Sensitive Queries in Web Search   | 6/10/2008  | 5/24/2011  |
| 8234166  | US-2010-0106606-A1 | 12/260,601     | US | UTL | Automated User Segment Selection For Delivery Of Online Advertisements   | 10/28/2008 | 7/31/2012  |
| 8010547  | 2009-02559643      | 12/103,382     | US | UTL | Normalizing Query Words In Web Search  | 4/15/2008  | 8/30/2011  |
| 7921103  | 2009-0319476-A1    | 12/143,710     | US | UTL | Adaptive Materialized View Selection For Databases   | 6/20/2008  | 4/5/2011   |
| 8918328  | 2009/0259643 A1    | 12/106,230     | US | UTL | Ranking using word overlap and correlation features  | 4/18/2008  | 12/23/2014 |
| 8489582  | 2010-0036827-A1    | 12/187,314     | US | UTL | Interconnected, Universal Search Experience Across Multiple Verticals  | 8/6/2008   | 7/16/2013  |
| 8711176  | US-2009-0289956-A1 | 12/125,891     | US | UTL | Virtual Billboards   | 5/22/2008  | 4/29/2014  |
| -        | 2014-0267416 A1    | 14/209,612     | US | UTL | Virtual Billboards   | 3/13/2014  | -          |
| -        | US-2009-0289955-A1 | 12/125,877     | US | UTL | Reality Overlay Device   | 5/22/2008  | -          |
| 9191238  | 2010-0023878 A1    | 12/177,983     | US | UTL | Virtual notes in a reality overlay   | 7/23/2008  | 11/17/2015 |
| -        | 2012-0131435       | 13/360,415     | US | UTL | Virtual notes in a reality overlay   | 1/27/2012  | -          |
| -        | 2010-0095231 A1    | 12/250,165     | US | UTL | Method And System For Providing Customized Regional Maps   | 10/13/2008 | -          |





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|            |                    |                   |    |     |  |             |            |
|------------|--------------------|-------------------|----|-----|--|-------------|------------|
| 188169     | 188169             | 201301253-9       | SG | UTL | Secure Browser-Based Applications  | 2/23/2009   | 11/6/2015  |
| 1420338    | -                  | 98105236          | TW | UTL | Secure Browser-Based Applications  | 2/19/2009   | 12/21/2013 |
| -          | -                  | 61/067,872        | US | PRV | Browser-Based Applications and Interfaces Having Secure Access to Native Operating System Features | 3/2/2008 -  |            |
| 8635701    | US-2009-0222925-A1 | 12/350,177        | US | UTL | Secure Browser-Based Applications  | 1/7/2009    | 1/21/2014  |
| -          | -                  | PCT/US2009/34833  | WO | UTL | Secure Browser-Based Applications  | 2/23/2009 - |            |
| 8051080    | US-2009-0265338A1  | 12/132,071        | US | UTL | Contextual Ranking of Keywords Using Click Data  | 6/3/2008    | 11/1/2011  |
| -          | -                  | 61/045,483        | US | PRV | Contextual Ranking Of Keywords Using Click Data  | 4/16/2008 - |            |
| -          | 2010-0325207 A1    | 12/488,380        | US | UTL | Conditional Communication Access Based on User Status  | 6/19/2009 - |            |
| 9020970    | 20100057701        | 12/200,630        | US | UTL | Embeddable Web Application Agent   | 8/28/2008   | 4/28/2015  |
| 1510937    | 200943107          | 98105776          | TW | UTL | Method and System for Prioritizing Media Assets for Publication                                    | 2/24/2009   | 12/1/2015  |
| 7860878    | US 2009-0216741 A1 | 12/036,970        | US | UTL | Prioritizing Media Assets For Publication  | 2/25/2008   | 12/28/2010 |
| 8027931    | US-2009-0326967-A1 | 12/147,422        | US | UTL | Automated Friend Finder  | 6/26/2008   | 9/27/2011  |
| 7945565    | 2010-0125572       | 12/275,155        | US | UTL | Method and System for Generating a Hyperlink-Click Graph   | 11/20/2008  | 5/17/2011  |
| 8452793    | 2010/0082610 A1    | 12/242,415        | US | UTL | Query Refinement Based on User Selections  | 9/30/2008   | 5/28/2013  |
| 8819003    | 2013-0232399 A1    | 13/868,104        | US | UTL | Query Refinement Based on User Selections  | 4/23/2013   | 8/26/2014  |
| -          | 2011-0055023       | 12/550,339        | US | UTL | Above the Fold   | 8/28/2009 - |            |
| 10-1226403 | -                  | 10-2010-0009019   | KR | UTL | System and Method for Communal Search  | 2/1/2010    | 1/18/2013  |
| -          | 201042476          | 99102046          | TW | UTL | System and Method for Communal Search  | 1/26/2010 - |            |
| -          | 2010-0198869 A1    | 12/364,476        | US | UTL | System and Method for Communal Search  | 2/2/2009 -  |            |
| -          | 2010-0049586 A1    | 12/196,245        | US | UTL | Method For Determining An Advertising Slate Based On An Expected Utility                           | 8/21/2008 - |            |
| 2009255462 | 2009255462         | 2009255462        | AU | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/1/2009    | 7/3/2014   |
| -          | 37/2011            | 8627/CHENP/2010   | IN | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/1/2009 -  |            |
| 10-1307661 | -                  | 10-2010-7026672   | KR | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/1/2009    | 9/5/2013   |
| 166985     | -                  | 201008418-4       | SG | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/1/2009    | 2/28/2013  |
| 8595097    | 2009-0300031       | 12/130,442        | US | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/30/2008   | 11/26/2013 |
| -          | 2014-0058847 A1    | 14/070,235        | US | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 11/1/2013 - |            |
| -          | WO 2009/148737 A1  | PCT/US2009/042581 | WO | UTL | Automatic Ad Group Creation In A Networked Advertising Environment                                 | 5/1/2009 -  |            |
| -          | 1158427            | 11112469          | HK | UTL | System and Method for Determination and Display of Personalized Distance                           | 6/4/2009 -  |            |
| 10-1177233 | -                  | 10-2011-7000884   | KR | UTL | System and Method for Determination and Display of Personalized Distance                           | 6/4/2009    | 8/20/2012  |

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SCHEDULE OF ASSETS

|            |                         |                   |    |     |   |            |            |
|------------|-------------------------|-------------------|----|-----|---|------------|------------|
| 1428564    | -                       | 98119946          | TW | UTL | System and Method for Determination and Display of Personalized Distance  | 6/15/2009  | 3/1/2014   |
| 8706406    | US-2009-0326800-A1      | 12/163,249        | US | UTL | System and Method for Determination and Display of Personalized Distance  | 6/27/2008  | 4/22/2014  |
| 9222780    | 2014-0114572 A1         | 14/144,981        | US | UTL | System and Method for Determination and Display of Personalized Distance  | 12/31/2013 | 12/29/2015 |
| -          | -                       | 14/953,573        | US | UTL | Systems and Method for Determination and Display of Personalized Distance | 11/30/2015 | -          |
| -          | WO 2009/158168          | PCT/US2009/046258 | WO | UTL | System and Method for Determination and Display of Personalized Distance  | 6/4/2009   | -          |
| -          | 201011583               | 98125477          | TW | UTL | System and Method for Improved Mapping and Routing                        | 7/29/2009  | -          |
| -          | 2010-0030740 A1         | 12/182,969        | US | UTL | System and Method for Improved Mapping and Routing                        | 7/30/2008  | -          |
| -          | -                       | PCT/US2009/051247 | WO | UTL | System and Method for Improved Mapping and Routing                        | 7/21/2009  | -          |
| 8108778    | US-2010-0083169-A1      | 12/241,590        | US | UTL | System and Method for Context Enhanced Mapping within a User Interface    | 9/30/2008  | 1/31/2012  |
| 9026917    | 2012-0030578 A1         | 13/270,791        | US | UTL | System and Method for Context Enhanced Mapping within a User Interface    | 10/11/2011 | 5/5/2015   |
| 8583668    | US-2010-0027527-A1      | 12/182,813        | US | UTL | System and Method for Context Enhanced Mapping                            | 7/30/2008  | 11/12/2013 |
| 8959100    | 2014-0067844-A1         | 14/076,948        | US | UTL | System and Method for Context Enhanced Mapping                            | 11/11/2013 | 2/17/2015  |
| -          | 2015-0149910 A1         | 14/584,475        | US | UTL | Real-Time Inventory Tracking Via Mobile Device                            | 12/29/2014 | -          |
| -          | 2014-0257888 A1         | 14/287,923        | US | UTL | Method and system for displaying online advertisements                    | 5/27/2014  | -          |
| -          | 2010-0036730 A1         | 12/187,317        | US | UTL | Method and system for displaying online advertisements                    | 8/6/2008   | -          |
| -          | 9280779 2012-0095848 A1 | 13/332,987        | US | UTL | Method and system for displaying online advertisements                    | 12/21/2011 | 3/8/2016   |
| -          | -                       | 15/010,697        | US | UTL | Method and system for displaying online advertisements                    | 1/29/2016  | -          |
| 8086700    | US-2010-0030870-A1      | 12/182,111        | US | UTL | Region and duration uniform resource identifiers (URI) for media objects  | 7/29/2008  | 12/27/2011 |
| -          | 2009-0299798 A1         | 12/130,378        | US | UTL | Supply Curve Pricing In A Networked Advertising Environment               | 5/30/2008  | -          |
| 8813107    | US-2009-0328087-A1      | 12/163,396        | US | UTL | System and method for location based media delivery                       | 6/27/2008  | 8/19/2014  |
| -          | -                       | 9808586           | EP | UTL | System and Method for Context Enhanced Messaging                          | 8/4/2009   | -          |
| -          | 22/2012                 | 1953/CHENP/2011   | IN | UTL | System and Method for Context Enhanced Messaging                          | 8/4/2009   | -          |
| 10-1351199 | -                       | 10-2011-7006532   | KR | UTL | System and Method for Context Enhanced Messaging                          | 8/4/2009   | 1/7/2014   |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |  |              |            |
|------------|--------------------|-------------------|----|-----|--|--------------|------------|
| 8386506    | US-2010-0049702-A1 | 12/195,969        | US | UTL | System and Method for Context Enhanced Messaging                                       | 8/21/2008    | 2/26/2013  |
| -          | 2013-0238727 A1    | 13/777,761        | US | UTL | System and Method for Context Enhanced Messaging                                       | 2/26/2013 -  |            |
| 8146134    | US-2010-0107215-A1 | 12/259,769        | WO | UTL | Messaging  | 8/4/2009 -   |            |
| 8763074    | 2012-0151555 A1    | 13/397,922        | US | UTL | A Scalable Firewall Policy Management Platform   | 10/28/2008   | 3/27/2012  |
| -          | 2010-0179756 A1    | 12/352,753        | US | UTL | A Scalable Firewall Policy Management Platform   | 2/16/2012    | 6/24/2014  |
| 8601377    | US 2010-0088607 A1 | 12/247,980        | US | UTL | Optimization Of Map Views Based On Real-Time Data                                      | 1/13/2009 -  |            |
| -          | 2014-0089439 A1    | 14/094,626        | US | UTL | System and Method for Maintaining Context Sensitive User Groups                        | 10/8/2008    | 12/3/2013  |
| 8346754    | US-2010-004790-A1  | 12/194,263        | US | UTL | Context Sensitive User Group Communications  | 12/2/2013 -  |            |
| -          | 2010-0082398 A1    | 12/239,964        | US | UTL | Generating Succinct Titles for Web UrIs  | 8/19/2008    | 1/1/2013   |
| 8108481    | US-2010-0082764-A1 | 12/240,524        | US | UTL | System for Providing Contextually Relevant Data  | 9/29/2008 -  |            |
| 8521731    | US-2010-0010959-A1 | 12/169,782        | US | UTL | Community Caching Networks   | 9/29/2008    | 1/31/2012  |
| -          | -                  | PCT/US09/49786    | WO | UTL | Systems and methods for query expansion in sponsored search                            | 7/9/2008     | 8/27/2013  |
| 8170974    | US-2010-0005040-A1 | 12/168,758        | US | UTL | Systems and methods for query expansion in sponsored search                            | 7/7/2009 -   |            |
| 8185528    | US-2009-0319533-A1 | 12/144,036        | US | UTL | Forecasting Association Rules Across User Engaging Levels                              | 7/7/2008     | 5/1/2012   |
| 8645369    | US 2010/0030768 A1 | 12/184,049        | US | UTL | Assigning Human-Understandable Labels to Web Pages                                     | 6/23/2008    | 5/22/2012  |
| -          | 102257525A         | 2419877           | CN | UTL | Classifying documents using implicit feedback and query patterns                       | 7/31/2008    | 2/4/2014   |
| -          | 2419877            | 1166870           | EP | UTL | System and Method for Retargeting  |              |            |
| -          | 18/2013            | 7751/CHENP/2011   | IN | UTL | Advertisements Based on Previously Captured Relevance Data                             | 11/30/2009 - |            |
| 10-1439593 | -                  | 10-2011-7027242   | KR | UTL | Subject-based Vitality   | 4/16/2010 -  |            |
| 1479339    | 201101069          | 99111974          | TW | UTL | Subject-based Vitality   | 4/16/2010    | 4/1/2015   |
| -          | 2010-0268728       | 12/426,133        | US | UTL | MEDIUM AND DEVICE FOR SUBJECT-BASED VITALITY   | 4/17/2009 -  |            |
| 2009277143 | -                  | 2009277143        | AU | UTL | Subject-based Vitality   | 7/23/2009    | 1/7/2016   |
| -          | 102550049          | 200980161654.X    | CN | UTL | Federated Community Search   | 7/23/2009    |            |
| -          | -                  | 9803248           | EP | UTL | Acquisition Of Out-Of-Vocabulary Translations By Dynamically Learning Extraction Rules | 9/25/2009 -  |            |
| 10-1337839 | -                  | 10-2011-7002156   | KR | UTL | Federated Community Search   | 7/23/2009 -  |            |
| 1425374    | 2010111582         | 98123017          | TW | UTL | Federated Community Search   | 7/23/2009    | 11/29/2013 |
| -          | 2010-0023502 A1    | 12/181,268        | US | UTL | Method, article and apparatus for federated community search                           | 7/8/2009     | 2/1/2014   |
| -          | -                  | PCT/US2009/004308 | WO | UTL | Federated Community Search   | 7/28/2008 -  |            |
| -          | -                  | -                 | WO | UTL | Federated Community Search   | 7/23/2009 -  |            |

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|                   |                    |                 |    |     |  |            |            |
|-------------------|--------------------|-----------------|----|-----|--|------------|------------|
| 20099283027       | -                  | 20099283027     | AU | UTL | Information Sharing In An Online Community   | 8/12/2009  | 3/25/2013  |
| 2013201387        | -                  | 2013201387      | AU | UTL | Information Sharing In An Online Community System and Method for Online Handwriting Recognition in Web Queries | 8/12/2009  | 10/9/2014  |
| ZL 201010244970.8 | 102262641A         | 201010244971    | CN | UTL | Information Sharing In An Online Community   | 7/28/2010  | 9/9/2015   |
| -                 | 2329449            | 9808620         | EP | UTL | Information Sharing In An Online Community   | 8/12/2009  | -          |
| 1160538           | HK1160538          | 12100390        | HK | UTL | Information Sharing In An Online Community   | 8/12/2009  | 11/8/2013  |
| 10-1368574        | -                  | 10-2013-7010899 | KR | UTL | Information Sharing in an Online Community   | 8/12/2009  | 2/21/2014  |
| -                 | 201011672          | 98127148        | TW | UTL | Information sharing in an online community   | 8/12/2009  | -          |
| 8719258           | US-2010-0049697-A1 | 12195,342       | US | UTL | Information Sharing in an Online Community   | 8/20/2008  | 5/6/2014   |
| -                 | 2010/021893        | PCT/US09/53601  | WO | UTL | Information Sharing In An Online Community   | 8/12/2009  | -          |
| -                 | 2010-0063881 A1    | 12/205,809      | US | UTL | Algorithm For Storyboarding In Display Advertising   | 9/5/2008   | -          |
| 8763087           | US 2010-0095353 A1 | 12/248,650      | US | UTL | System and Method for Content Access Control   | 10/9/2008  | 6/24/2014  |
| -                 | 2014-0304283 A1    | 14/312,385      | US | UTL | System And Method For Content Access Control   | 6/23/2014  | -          |
| 2010204767        | -                  | 2010204767 AU   | AU | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | 1/16/2014  |
| -                 | 102272786A         | 201080004169 CN | CN | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | -          |
| -                 | 2380126            | 10732072 EP     | EP | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | -          |
| -                 | HK1163900          | 12104516 HK     | HK | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | -          |
| 10-1430799        | -                  | 10-2011-7018945 | KR | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | 8/8/2014   |
| -                 | -                  | 10-2013-7034304 | KR | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2010  | -          |
| 1439954           | 201032167          | 99100627 TW     | TW | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/12/2010  | 6/1/2014   |
| -                 | 2010-0179856 A1    | 12/353,795      | US | UTL | Conditional Incentive Presentation, Tracking And Redemption  | 1/14/2009  | -          |
| -                 | 2009-0327072 A1    | 12/146,296      | US | UTL | Presentation Of Sequential Advertisements  | 6/25/2008  | -          |
| 8260680           | US-2010-0161438-A1 | 12/338,460      | US | UTL | System and Method for a Data Driven Meta-Auction Mechanism for Sponsored Search                                | 12/18/2008 | 8/15/2012  |
| 8484094           | 2012-0290406 A1    | 13/561,179      | US | UTL | Auction Mechanism for Sponsored Search   | 7/30/2012  | 7/9/2013   |
| 8621424           | 20090328014        | 12/165,457      | US | UTL | Compiler Based Code Modification for Use in Document Ranking   | 6/30/2008  | 12/31/2013 |
| 7627648           | -                  | 12/508,443      | US | UTL | Customizing And Storing Web Pages For Mobile On Web  | 7/23/2009  | 12/1/2009  |
| -                 | 2010-0124991       | 12/273,488      | US | UTL | Game and Market Mechanisms for Virtual Real Estate   | 11/18/2008 | -          |
| -                 | 2010-0205060 A1    | 12/368,195      | US | UTL | Context-Sensitive Route Generation System  | 2/9/2009   | -          |
| 8700609           | US-2010-0049604-A1 | 12/195,332      | US | UTL | Advertising In An Online Community   | 8/20/2008  | 4/15/2014  |
| 8458170           | 20090327274        | 12/165,307      | US | UTL | Prefetching Data for Document Ranking  | 6/30/2008  | 6/4/2013   |
| 8554847           | US-2010-0017476-A1 | 12/173,618      | US | UTL | Anti-spam Profile Clustering Based on User Behavior  | 7/15/2008  | 10/8/2013  |

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SCHEDULE OF ASSETS

|         |                    |               |    |     |  |            |            |
|---------|--------------------|---------------|----|-----|--|------------|------------|
| 8099463 | US-2010-0017412-A1 | 12/174,203    | US | UTL | Method and Apparatus for Sharing Concurrent Ad Hoc Web Content Between Users Visiting the Same Web Pages       | 7/16/2008  | 1/17/2012  |
| 9009228 | 2012-0150963 A1    | 13/350,603    | US | UTL | Method and Apparatus for Sharing Concurrent Ad Hoc Web Content Between Users Visiting the Same Web Pages       | 1/13/2012  | 4/14/2015  |
| 8281027 | US-2010-0077017-A1 | 12/234,000    | US | UTL | System and Method for Distributing Media Related to a Location   | 9/19/2008  | 10/2/2012  |
| 8856375 | 2013-0018897       | 13/620,222    | US | UTL | System and Method for Distributing Media Related to a Location   | 9/14/2012  | 10/7/2014  |
| 8290923 | US-2010-0076947-A1 | 12/205,107    | US | UTL | Performing Large Scale Structured Search Allowing Partial Schema Changes Without System Downtime               | 9/5/2008   | 10/16/2012 |
| 7792040 | US-2010-0027426-A1 | 12/182,878    | US | UTL | Bandwidth and Cost Management for Ad Hoc Networks  | 7/30/2008  | 9/7/2010   |
| 8126908 | US-2009-0282010A1  | 12/141,833    | US | UTL | Creation and enrichment of search based taxonomy for finding information from semistructured data              | 6/18/2008  | 2/28/2012  |
| -       | 2012-0117050 A1    | 13/353,187    | US | UTL | Creation And Enrichment Of Search Based Taxonomy For Finding Information From Semistructured Data              | 1/18/2012  | -          |
| -       | 2010-0077484 A1    | 12/236,037    | US | UTL | Location Tracking Permissions And Privacy  | 9/23/2008  | -          |
| -       | 2010-0076777 A1    | 12/236,363    | US | UTL | Automatic Recommendation Of Location Tracking Privacy Policies   | 9/23/2008  | -          |
| 7689650 | US-2010-0070585-A1 | 12/209,859    | US | UTL | Presence Indication Configuration Methodology  | 9/12/2008  | 3/30/2010  |
| 1412943 | 201009618          | 98124842      | TW | UTL | Network device, computer readable storage medium, method and system for managing a search query over a network | 7/23/2009  | 10/21/2013 |
| -       | 2010-0036830       | 12/188,178    | US | UTL | Context Based Search Arrangement For Mobile Devices  | 8/7/2008   | -          |
| -       | 2010-0082688 A1    | 12/241,687    | US | UTL | System and Method for Reporting and Analysis of Media Consumption Data   | 9/30/2008  | -          |
| 8984398 | 2010-0057710 A1    | 12/200,380    | US | UTL | Generation of Search Result Abstracts  | 8/28/2008  | 3/17/2015  |
| 8996622 | 2010-0082752 A1    | 12/241,731    | US | UTL | Query Log Mining for Detecting Spam Hosts  | 9/30/2008  | 3/31/2015  |
| 8458177 | 2010-0198812       | 12/364,472    | US | UTL | Automated Search   | 2/2/2009   | 6/4/2013   |
| 9002840 | 2013-0262509 A1    | 13/908,266    | US | UTL | Automated Search   | 6/3/2013   | 4/7/2015   |
| -       | 25/2012            | 1798/CHE/2008 | IN | UTL | AUGMENTING ONLINE CONTENT WITH ADDITIONAL CONTENT RELEVANT TO USER INTERESTS                                   | 7/22/2008  | -          |
| 9152722 | 2010-0023506 A1    | 12/347,882    | US | UTL | Augmenting Online Content with Additional Content Relevant to User Interests                                   | 12/31/2008 | 10/6/2015  |
| 8499032 | US-2010-0042622-A1 | 12/191,854    | US | UTL | System and Method for Compiling a Set of Domain Names to Recover   | 8/14/2008  | 7/30/2013  |
| 8533129 | US-2010-0070457-A1 | 12/211,636    | US | UTL | Efficient Data Layout Techniques for Fast Machine Learning-Based Document Ranking                              | 9/16/2008  | 9/10/2013  |
| 7974970 | US-2010-0094868-A1 | 12/248,267    | US | UTL | Detection of Undesirable Web Pages   | 10/9/2008  | 7/5/2011   |

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SCHEDULE OF ASSETS

|         |                    |            |    |     |  |              |            |
|---------|--------------------|------------|----|-----|--|--------------|------------|
| 8483715 | 2010-0250136       | 12/412,238 | US | UTL | Computer Based Location Identification Using Images  | 3/26/2009    | 7/9/2013   |
| 9020529 | 2013-0294657 A1    | 13/936,341 | US | UTL | Computer Based Location Identification Using Images  | 7/8/2013     | 4/28/2015  |
| 8433175 | 20100104259        | 12/259,849 | US | UTL | Video Comparing Using Fingerprint Representations  | 10/28/2008   | 4/30/2013  |
| -       | 2010-0010897 A1    | 12/172,957 | US | UTL | Method, Apparatus and System for Calculating and Displaying an Influence Map Using Adjacencies Between Discontinuous Geographies | 7/14/2008 -  |            |
| 8527353 | US-2010-0070322-A1 | 12/211,399 | US | UTL | Method and Apparatus for Administering a Bidding Language for Online Advertising   | 9/16/2008    | 9/3/2013   |
| 8065242 | US-2010-0023474-A1 | 12/178,483 | US | UTL | Decision Tree Coalescing for Document Ranking  | 7/23/2008    | 11/22/2011 |
| -       | 2010-0063993 A1    | 12/206,172 | US | UTL | System and Method for Socially Aware Identity Manager  | 9/8/2008 -   |            |
| -       | 2010-0103075 A1    | 12/257,832 | US | UTL | Reconfiguring Reality Using A Reality Overlay Device   | 10/24/2008 - |            |
| 7945630 | US-2010-0082757-A1 | 12/242,074 | US | UTL | Address Quality Engine   | 9/30/2008    | 5/17/2011  |
| 8171429 | US-2009-0300552-A1 | 12/130,803 | US | UTL | Application Navigation   | 5/30/2008    | 5/1/2012   |
| 8060823 | US-2010-0037172-A1 | 12/189,088 | US | UTL | Notification Controls For Online Collaboration Platform  | 8/8/2008     | 11/15/2011 |
| 8060828 | US-2010-0037305-A1 | 12/189,091 | US | UTL | Window Overlay For Online Collaboration Platform   | 8/8/2008     | 11/15/2011 |
| 8856641 | US-2010-0077290-A1 | 12/236,647 | US | UTL | Time-Tagged Metainformation and Content Display Method and System  | 9/24/2008    | 10/7/2014  |
| 8095545 | 2010-0094853-A1    | 12/250,929 | US | UTL | System And Methodology For A Multi-Site Search Engine  | 10/14/2008   | 1/10/2012  |
| 7693907 | -                  | 12/358,183 | US | UTL | News Selection For A Mobile Device Using Weighted Virtual Tiles  | 1/22/2009    | 4/6/2010   |
| 8577930 | 2010-0049504 A1    | 12/195,088 | US | UTL | Measuring Topical Coherence of Keyword Sets  | 8/20/2008    | 11/5/2013  |
| 7577652 | -                  | 12/236,108 | US | UTL | Measuring Topical Coherence of Keyword Sets  | 9/23/2008    | 8/18/2009  |
| 8213723 | 2010-01166321      | 12/344,744 | US | UTL | Method and System for Determining Near Duplicate Images  | 12/29/2008   | 7/3/2012   |
| 8528079 | US-2010-0043071-A1 | 12/269,578 | US | UTL | System and method for combating phishing   | 11/12/2008   | 9/3/2013   |
| 8006200 | US-2010-0037163-A1 | 12/189,095 | US | UTL | Facilitated Search For Online Collaboration Platform   | 8/8/2008     | 8/23/2011  |
| 8037410 | US 2010-0107061 A1 | 12/259,170 | US | UTL | Method And Apparatus For Estimating The Size Of Rendered Text  | 10/27/2008   | 10/11/2011 |
| 8645205 | US-2010-0082423-A1 | 12/241,726 | US | UTL | System for Optimizing Ad Performance at Campaign Running Time  | 9/30/2008    | 2/4/2014   |
| 8060492 | US-2010-125562-A1  | 12/273,291 | US | UTL | System and Method for Generation of URL Based Context Queries  | 11/18/2008   | 11/15/2011 |
| -       | 201030543          | 98137071   | TW | UTL | System and method for autohyperlinking and navigation in URL based context queries   | 11/2/2009 -  |            |
| -       | 2010-0125569 A1    | 12/273,317 | US | UTL | System and Method for Autohyperlinking and Navigation in URL Based Context Queries   | 11/18/2008 - |            |

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SCHEDULE OF ASSETS

|            |                    |                   |    |     |  |                      |
|------------|--------------------|-------------------|----|-----|--|----------------------|
| -          | 2010/059308        | PCT/US2009/060374 | WO | UTL | System and Method for Autohyperlinking and Navigation in URL Based Context Queries | 10/12/2009 -         |
| -          | 2010-0125605 A1    | 12/27/3,345       | US | UTL | System and Method for Data Privacy in URL Based Context Queries                    | 11/18/2008 -         |
| 8024317    | US-2010-0125563-A1 | 12/27/3,371       | US | UTL | System and Method for Deriving Income From URL Based Content Queries               | 11/18/2008 9/20/2011 |
| -          | 2012-0010997 A1    | 13/236,181        | US | UTL | System and Method for Deriving Income From URL Based Context Queries               | 9/19/2011 -          |
| 8671093    | 2010-0125570       | 12/27/3,425       | US | UTL | Click Model For Search Rankings  | 11/18/2008 3/11/2014 |
| 8719292    | 2010-0088332       | 12/247,156        | US | UTL | Interactive System For Internet Information Retrieval And Exploration              | 10/7/2008 5/6/2014   |
| -          | 2010-0070372 A1    | 12/212,618        | US | UTL | Using Spam And User Actions To Infer Advertisements                                | 9/17/2008 -          |
| -          | 2010-0082403 A1    | 12/241,198        | US | UTL | Advocate Rank Network and Engine   | 9/30/2008 -          |
| 2009288447 | -                  | 2009288447        | AU | UTL | System and method for assisting search requests with vertical suggestions          | 8/21/2009 1/9/2014   |
| -          | 102308184          | 201080006997      | CN | UTL | Entity-Based Search Results and Clusters on Maps                                   | 2/9/2010 -           |
| -          | EP 2335166         | 9811965           | EP | UTL | System and Method for Assisting Search Request with Vertical Suggestions           | 8/21/2009 -          |
| -          | 1160524            | 12100390          | HK | UTL | System and method for assisting search requests with vertical suggestions          | 8/21/2009 -          |
| 10-1278406 | -                  | 10-2011-7006880   | KR | UTL | System and Method for Assisting Search Requests With Vertical Suggestions          | 8/21/2009 6/18/2013  |
| 8010537    | US-2010-0057698-A1 | 12/199,138        | US | UTL | Search Assist Vertical Suggestions   | 8/27/2008 8/30/2011  |
| -          | 2010/027700        | PCT/US09/54587    | WO | UTL | Search Assist Vertical Suggestions   | 8/21/2009 -          |
| -          | 2010-0131364 A1    | 12/276,690        | US | UTL | Truthful Pricing Scheme For Sponsored Search With Reserve Prices                   | 11/24/2008 -         |
| -          | 201112687          | 98134048          | TW | UTL | Network Aggregator   | 10/7/2009 -          |
| -          | -                  | 104144424         | TW | UTL | Network Aggregator   | 12/30/2015 -         |
| -          | -                  | 61/107,331        | US | PRV | Aggregator platform  | 10/21/2008 -         |
| 8869256    | 2010-0100952 A1    | 12/359,232        | US | UTL | Network Aggregator   | 1/23/2009 10/21/2014 |
| -          | 2015-0135295 A1    | 14/516,229        | US | UTL | Network Aggregator   | 10/16/2014 -         |
| 8738436    | US-2010-0082421-A1 | 12/241,815        | US | UTL | Click Through Rate Prediction System and Method                                    | 9/30/2008 5/27/2014  |
| -          | 2010-0082435 A1    | 12/240,653        | US | UTL | Customizable Ad Marker   | 9/29/2008 -          |
| 8078645    | US-2010-0011013-A1 | 12/170,025        | US | UTL | Operations on Multi-Level Nested Data Structure                                    | 7/9/2008 12/13/2011  |
| 8078638    | US-2010-0010960-A1 | 12/169,931        | US | UTL | Operations on Multi-Level Nested Data Structure                                    | 7/9/2008 12/13/2011  |
| 8504587    | US-2010-0082677-A1 | 12/241,337        | US | UTL | Content Access and Annotation System and Method                                    | 9/30/2008 8/6/2013   |
| -          | 2010-0161592 A1    | 12/341,909        | US | UTL | Query Intent Determination Using Social Tagging                                    | 12/22/2008 -         |
| 8793249    | 2010-0082627       | 12/237,231        | US | UTL | Optimization filters for user generated content searches                           | 9/24/2008 7/29/2014  |
| 8005917    | US-2010-0082728-A1 | 12/242,018        | US | UTL | Consensus-based reliable messaging   | 9/30/2008 8/23/2011  |

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|         |                    |            |    |     |  |            |            |
|---------|--------------------|------------|----|-----|--|------------|------------|
| 8019899 | US 2010/0057939 A1 | 12/200,529 | US | UTL | Delivering Partially Processed Results Based on System Metrics in Network Content Delivery Systems | 8/28/2008  | 9/13/2011  |
| -       | 2010-0082605 A1    | 12/241,284 | US | UTL | System And Method For Deducing User Interaction Patterns Based On Limited Activities               | 9/30/2008  | -          |
| 8340408 | 220923             | 12/395,167 | US | UTL | Automatic Page Layout Validation   | 2/27/2009  | 12/25/2012 |
| -       | US-2010-0076850-A1 | 12/235,414 | US | UTL | Targeting Ads by Effectively Combining Behavioral Targeting and Social Networking                  | 9/22/2008  | -          |
| -       | US-2009-0106104-A1 | 12/185,040 | US | UTL | System And Method For Implementing An Ad Management System For An Extensible Media Player          | 8/1/2008   | -          |
| 8311882 | US-2010-0114710-A1 | 12/261,933 | US | UTL | System and Method for Forecasting an Inventory of Online Advertisement Impressions for Targeting   | 10/30/2008 | 11/13/2012 |
| -       | 2010-0100422 A1    | 12/255,896 | US | UTL | Impression Attributes  | 10/22/2008 | -          |
| 8538809 | US-2010-0082503-A1 | 12/240,826 | US | UTL | Apparatus and Methods for Pricing Guaranteed Delivery Contracts                                    | 9/29/2008  | 9/17/2013  |
| 8321280 | US-2010-0082442-A1 | 12/243,347 | US | UTL | Estimating on-line advertising inventory value based on contract eligibility information           | 10/1/2008  | 11/27/2012 |
| 8224692 | US-2010-0114721-A1 | 12/263,406 | US | UTL | Demand Forecasting System and Method for Online Advertisements                                     | 10/31/2008 | 7/17/2012  |
| 8682842 | US-2010-0146331-A1 | 12/331,326 | US | UTL | System and Method for Pricing of Overlapping Impressions Pools of Online Advertisement             | 12/9/2008  | 3/25/2014  |
| 8353018 | 2010-0122330-A1    | 12/270,528 | US | UTL | System and Method for Logging Operations   | 11/13/2008 | 1/8/2013   |
| -       | 2011-0015999       | 12/502,330 | US | UTL | Automatic Local Listing Owner Authentication System  | 7/14/2009  | -          |
| -       | 2010-0070335 A1    | 12/233,091 | US | UTL | System and method for utilizing a lattice storage structure in an advertisement serving system     | 9/18/2008  | -          |
| -       | US-2010-0082611-A1 | 12/236,353 | US | UTL | Using Social Neighborhoods of a Social Network   | 9/23/2008  | -          |
| -       | 2010-0293035 A1    | 12/467,189 | US | UTL | Trajectory Data Surfacing System: Surfacing Useful and Relevant Entity Annotations                 | 5/15/2009  | -          |
| -       | 2010-0250578 A1    | 12/415,477 | US | UTL | Map Advertising System Interface   | 3/31/2009  | -          |
| 7962502 | US-2010-0125590A1  | 12/273,504 | US | UTL | System and method for conducting a profile based search  | 11/18/2008 | 6/14/2011  |
| 8386507 | 2011-0270989       | 13/105,746 | US | UTL | Efficient Caching For Dynamic Webservice Queries Using Cacheable Fragments                         | 5/11/2011  | 2/26/2013  |
| 8166016 | US-2010-0161600-A1 | 12/339,355 | US | UTL | Queries Using Cacheable Fragments  | 12/19/2008 | 4/24/2012  |
| -       | 2013-0046778-A1    | 13/452,091 | US | UTL | System and Method for Automated Service Recommendations  | 4/20/2012  | -          |
| 1443532 | 201030544          | 98137373   | TW | UTL | System and Method for Automated Service Recommendations  | 11/4/2009  | 7/1/2014   |



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|               |                    |                   |    |     |  |            |            |
|---------------|--------------------|-------------------|----|-----|--|------------|------------|
| 8055675       | US-2010-0125479-A1 | 12/329,038        | US | UTL | System and Method for Context Based Query Augmentation   | 12/5/2008  | 11/8/2011  |
| 8856167       | 2012-0078938       | 13/251,779        | US | UTL | System and Method for Context Based Query Augmentation   | 10/3/2011  | 10/7/2014  |
| -             | 2010/065195        | PCT/US2009/060476 | WO | UTL | Dynamic Demand Calculation Using Captured Data Of Real Life Objects                                | 10/13/2009 | -          |
| 8260666       | US-2010-0179857-A1 | 12/353,797        | US | UTL | Methods For Improving The Diversity Of Image Search Results  | 1/14/2009  | 9/4/2012   |
| 8171043       | 2010-0114933-A1    | 12/257,991        | US | UTL | System and Method for Delivering Sponsored Landmark and Location Labels                            | 1/29/2010  | 5/28/2014  |
| CN 102326176B | -                  | 201080008406      | CN | UTL | Digital Image Retrieval by Aggregating Search Results Based on Visual Annotations                  | 10/20/2009 | -          |
| -             | -                  | 9822582           | EP | UTL | Digital Image Retrieval by Aggregating Search Results Based on Visual Annotations                  | 10/20/2009 | -          |
| 1162077       | 1162077            | 12102238          | HK | UTL | Digital Image Retrieval by Aggregating Search Results Based on Visual Annotations                  | 10/20/2009 | 7/4/2014   |
| -             | 36/2012            | 3497/CHENP/2011   | IN | UTL | Digital Image Retrieval by Aggregating Search Results Based on Visual Annotations                  | 10/20/2009 | -          |
| 10-1347407    | -                  | 10-2011-7011702   | KR | UTL | Improved Digital Image Retrieval By Aggregating Search Results Based On Visual Annotations         | 10/20/2009 | 12/26/2013 |
| 7962500       | 2010-0114888-A1    | 12/258,349        | US | UTL | Digital Image Retrieval by Aggregating Search Results Based on Visual Annotations                  | 10/24/2008 | 6/14/2011  |
| -             | -                  | PCT/US09/61361    | WO | UTL | System and Method for In-Context Exploration of Search Results                                     | 10/20/2009 | -          |
| -             | 2010-0153384       | 12/332,618        | US | UTL | System and Method for In-Context Exploration of Search Results                                     | 12/11/2008 | -          |
| -             | -                  | 15/056,860        | US | UTL | System and Method for In-Context Exploration of Search Results                                     | 2/29/2016  | -          |
| 8365267       | US 2010-0122331 A1 | 12/270,785        | US | UTL | Single Use Web Based Passwords for Network Login   | 11/13/2008 | 1/29/2013  |
| 8069160       | US-2010-0161613-A1 | 12/344,005        | US | UTL | System and Method for Dynamically Monetizing Keyword Values  | 12/24/2008 | 11/29/2011 |
| 8732160       | US-2010-0121847-A1 | 12/268,956        | US | UTL | Exploring Large Textual Data Sets Via Interactive Aggregation                                      | 11/11/2008 | 5/20/2014  |
| 8838527       | US-2010-0114867-A1 | 12/266,364        | US | UTL | Virtual Environment Spanning Desktop and Cloud   | 11/6/2008  | 9/16/2014  |
| 8965842       | 2014-0324822 A1    | 14/331,372        | US | UTL | Virtual Environment Spanning Desktop and Cloud   | 7/15/2014  | 2/24/2015  |
| -             | US-2010-0082360-A1 | 12/242,352        | US | UTL | Age-Targeted Online Marketing Using Inferred Age Range Information                                 | 9/30/2008  | -          |
| 8613047       | US 2010-0269165 A1 | 12/427,676        | US | UTL | Interacting With Internet Servers Without Keyboard   | 4/21/2009  | 12/17/2013 |
| 5737352       | -                  | 08/745,761        | US | UTL | Semiconductor Diode Laser, In Particular A Laser Amplifier, And Method Of Manufacturing This Laser | 11/8/1996  | 4/7/1998   |

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|         |                    |                |    |     |  |            |            |
|---------|--------------------|----------------|----|-----|--|------------|------------|
| 8140518 | 2011-0173183       | 12/684,878     | US | UTL | System and method for optimizing search results ranking through collaborative gaming   | 1/8/2010   | 3/20/2012  |
| 8612424 | 2012-0149470       | 13/372,631     | US | UTL | System and method for optimizing search results ranking through collaborative gaming   | 2/14/2012  | 12/17/2013 |
| 8112393 | US 2010-0145939-A1 | 12/329,443     | US | UTL | Determining Related Keywords Based On Lifestream Feeds   | 12/5/2008  | 2/7/2012   |
| 8515908 | 2012-0102058       | 13/343,673     | US | UTL | Determining Related Keywords Based On Lifestream Feeds   | 1/4/2012   | 8/20/2013  |
| 9083791 | 2010-0184422 A1    | 12/358,190     | US | UTL | Web-Hosted Framework For Mobile Applications Bid Gateway Architecture for an Online Advertisement Bidding System                                       | 1/22/2009  | 7/14/2015  |
| 8135626 | 2010-0228641       | 12/398,877     | US | UTL | System for Integrating Content from External Corpora Into Primary Search Engine Results  | 3/5/2009   | 3/13/2012  |
| 8150874 | 2011-0131246       | 12/628,036     | US | UTL | Identifying And Expanding Implicitly Temporally Qualified Queries  | 11/30/2009 | 4/3/2012   |
| 8156111 | US 2010/0131538 A1 | 12/277,059     | US | UTL | Mining Broad Hidden Query Aspects From User Search Sessions  | 11/24/2008 | 4/10/2012  |
| -       | 2010-0145944 A1    | 12/332,187     | US | UTL | Mining Broad Hidden Query Aspects From User Search Sessions  | 12/10/2008 | -          |
| -       | -                  | 15/052,725     | US | UTL | Mining Broad Hidden Query Aspects From User Search Sessions  | 2/24/2016  | -          |
| 7809824 | US-2010-0082800-A1 | 12/240,708     | US | UTL | CLASSIFICATION AND CLUSTER ANALYSIS SPAM DETECTION AND REDUCTION   | 9/29/2008  | 10/5/2010  |
| 8290944 | US 2010-0131493 A1 | 12/323,297     | US | UTL | Method For Storing Bookmarks For Search Results From Previously Submitted Search Queries By A User And Storing Links To Selected Documents By The User | 11/25/2008 | 10/16/2012 |
| 8868551 | 2013-0013628 A1    | 13/619,443     | US | UTL | Method for storing bookmarks for search results from previously submitted search queries by a user and storing links to selected documents by the user | 9/14/2012  | 10/21/2014 |
| -       | 2010-0131495 A1    | 12/323,354     | US | UTL | Lightning Search Aggregate   | 11/25/2008 | -          |
| 8301624 | US-2010-0082749-A1 | 12/416,036     | US | UTL | Determining User Preference of Items Based on User Ratings and User Features   | 3/31/2009  | 10/30/2012 |
| 8909626 | 2013-0054593A1     | 13/660,175     | US | UTL | Determining User Preference Of Items Based On User Ratings And User Features   | 10/25/2012 | 12/9/2014  |
| 8296305 | US-2010-0145941A1  | 12/331,358     | US | UTL | Rules And Method For Improving Image Search Relevance Through Games  | 12/9/2008  | 10/23/2012 |
| 8244517 | 2010-0121624A1     | 12/267,534     | US | UTL | Enhanced Matching through Explore/Exploit Schemes  | 11/7/2008  | 8/14/2012  |
| 8560293 | 2012-0303349       | 13/569,728     | US | UTL | Enhanced Matching through Explore/Exploit Schemes  | 8/8/2012   | 10/15/2013 |
| -       | 2010-0114788 A1    | 12/261,679     | US | UTL | Cross-Network Social Networking Application Architecture   | 10/30/2008 | -          |
| 8886636 | 2010-0161605 A1    | 12/342,449     | US | UTL | Context Transfer In Search Advertising   | 12/23/2008 | 11/11/2014 |
| -       | -                  | PCT/US09/64986 | WO | UTL | Context transfer in search advertising   | 11/18/2009 | -          |
| 8812362 | 20100217648        | 12/390,048     | US | UTL | Method and System for Quantifying User Interactions With Web Advertisements  | 2/20/2009  | 8/19/2014  |

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|            |                    |                   |    |     |   |                      |
|------------|--------------------|-------------------|----|-----|---|----------------------|
| -          | 2010-0332304       | 12/493,778        | US | UTL | Targeting in Cost-Per-Action Advertising  | 6/29/2009 -          |
| -          | 2010-0332288-      | 12/493,859        | US | UTL | Operating a Sensor Recording Marketplace  | 6/29/2009 -          |
| 8468158    | US 2010-0114946 A1 | 12/266,508        | US | UTL | Adaptive Weighted Crawling Of User Activity Feeds   | 11/6/2008 6/18/2013  |
| -          | 2010-0153884 A1    | 12/333,937        | US | UTL | Enhanced Web Toolbar  | 12/12/2008 -         |
| -          | 2010/068334        | PCT/US2009/060485 | WO | UTL | Enhanced Web Toolbar  | 10/13/2009 -         |
| 8731284    | 20100158395        | 12/339,740        | US | UTL | Method and System for Detecting Image Spam  | 12/19/2008 5/20/2014 |
| -          | 102341818A         | 201080009945.X    | CN | UTL | System and Method for Contextual Advertising Based on Status Messages   | 3/3/2010 -           |
| -          | HK1163317          | 12103734          | HK | UTL | Method and System for Retargeting   | 11/30/2009 -         |
| -          | 36/2012            | 4189/CHENP/2011   | IN | UTL | Advertisements Based on Previously Captured Relevance Data  | 11/30/2009 -         |
| 10-1304119 | -                  | 10-2011-7017377   | KR | UTL | System and Method for Retargeting   | 11/30/2009 8/29/2013 |
| -          | US-2010-0161378-A1 | 12/342,566        | US | UTL | Advertisements Based on Previously Captured Relevance Data  | 12/23/2008 -         |
| -          | -                  | PCT/US09/66056    | WO | UTL | Method and System for Retargeting   | 11/30/2009 -         |
| 8209277    | US-2010-0205131-A1 | 12/368,180        | US | UTL | Advertisements Based on Previously Captured Relevance Data  | 2/9/2009 6/26/2012   |
| 8495021    | 20100131545        | 12/324,453        | US | UTL | Predicting the Outcome of Events Based on Related Internet Activity   | 11/26/2008 7/23/2013 |
| 8352466    | US-2010-0161591-A1 | 12/341,327        | US | UTL | Distribution Data Items within Geographically Distributed Databases   | 12/22/2008 1/8/2013  |
| 7958109    | 2010-0205199A1     | 12/367,225        | US | UTL | System and Method of Geo-based Prediction in Search Result Selection  | 2/6/2009 6/7/2011    |
| 9110927    | 2010-0128987 A1    | 12/277,689        | US | UTL | Intent driven Search result rich abstracts  | 11/25/2008 8/18/2015 |
| -          | 2010-0158356 A1    | 12/341,587        | US | UTL | Method and Apparatus for Organizing Digital Photographs   | 12/22/2008 -         |
| 8112428    | 2010-0131500-A1    | 12/277,248        | US | UTL | System and Method for Improved Classification   | 11/24/2008 2/7/2012  |
| -          | -                  | 60/710,036        | US | PRV | Clustering Image Search Results Through Voting: Reciprocal Election   | 8/18/2005 -          |
| 7698347    | 20070043879        | 11/506,337        | US | UTL | System and Method for Shortening Click URLs   | 8/18/2006 4/13/2010  |
| 8700630    | 2010-0228712       | 12/391,968        | US | UTL | System And Method For Shortening Click URLs Algorithmically Generated Topic Pages with Interactive Advertisements | 2/24/2009 4/15/2014  |
| 8838625    | 2010-0256974       | 12/417,773        | US | UTL | Automated Screen Scraping via Grammar Induction   | 4/3/2009 9/16/2014   |
| 8051062    | 2010-0161581       | 12/344,142        | US | UTL | Optimal Stochastic Auctions for Constrained Sponsored Search  | 12/24/2008 11/1/2011 |
| -          | 2010-0125568 A1    | 12/273,197        | US | UTL | Dynamic Feature Weighting   | 11/18/2008 -         |

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|                  |                    |                 |    |     |   |            |            |
|------------------|--------------------|-----------------|----|-----|---|------------|------------|
| 8504931          | US 2010/0162154A1  | 12/340,400      | US | UTL | Conversion Service for Data Dragged on Web-Sites  | 12/19/2008 | 8/6/2013   |
| 8413063          | US 2010/0161582A1  | 12/352,902      | US | UTL | Conversion and Query for Data Dragged On Web-Sites  | 1/13/2009  | 4/2/2013   |
| 8682072          | 2010-0166325 A1    | 12/345,669      | US | UTL | Image Segmentation  | 12/30/2008 | 3/25/2014  |
| 8498978          | 20100169292        | 12/345,674      | US | UTL | Slideshow-Video File Detection  | 12/30/2008 | 7/30/2013  |
| 8762829          | 20100162097        | 12/344,076      | US | UTL | Robust Wrappers For Web Extraction  | 12/24/2008 | 6/24/2014  |
| 8032535          | -                  | 12/427,767      | US | UTL | Personalized Web Search Ranking   | 4/21/2009  | 10/4/2011  |
|                  | 2010218372 -       |                 |    |     | System and Method for Delivering Sponsored Landmark and Location Labels                   | 1/29/2010  | 5/24/2013  |
| ZL201080017077.X | 102395969A         | 201080017077.X  | CN | UTL | Subject-based Vitality  | 4/16/2010  | 6/10/2015  |
| -                | -                  | 10746606        | EP | UTL | System and Method for Delivering Sponsored Landmark and Location Labels                   | 1/29/2010  | -          |
| -                | 1165062            | 12105743        | HK | UTL | System and Method for Delivering Sponsored Landmark and Location Labels                   | 1/29/2010  | 2/18/2015  |
| -                | 51/2012            | 6230/CHENP/2011 | IN | UTL | System and Method for Delivering Sponsored Landmark and Location Labels                   | 1/29/2010  | -          |
| -                | 2010-0217525 A1    | 12/392,678      | US | UTL | System and Method for Delivering Sponsored Landmark and Location Labels                   | 2/25/2009  | -          |
| 8364969          | US 2010/0199098A1  | 12/364,079      | US | UTL | PROTECTING PRIVACY OF SHARED PERSONAL INFORMATION   | 2/2/2009   | 1/29/2013  |
| 8752196          | 2013-0205404 A1    | 13/734,766      | US | UTL | Protecting Privacy of Shared Personal Information   | 1/4/2013   | 6/10/2014  |
| 8849790          | 2010-0161652 A1    | 12/344,132      | US | UTL | Rapid Iterative Development Of Classifiers  | 12/24/2008 | 9/30/2014  |
| -                | 2010-0199184 A1    | 12/363,409      | US | UTL | Prioritizing Vitality Events In A Social Networking System                                | 1/30/2009  | -          |
| -                | 2010-0198741 A1    | 12/363,447      | US | UTL | Designating Priority For Characteristics Of Vitality Events In A Social Networking System | 1/30/2009  | -          |
| 8676827          | US 2010-0198857 A1 | 12/365,551      | US | UTL | Rare Query Expansion By Web Feature Matching  | 2/4/2009   | 3/18/2014  |
| 8041729          | 2010-0228742       | 12/390,066      | US | UTL | Categorizing Queries and Expanding Keywords with a Coreference Graph                      | 2/20/2009  | 10/18/2011 |
| 8266158          | US-2010-0198836-A1 | 12/362,917      | US | UTL | Systems and methods for calculating just-in-time reputation score                         | 1/30/2009  | 9/11/2012  |
| 8150723          | 2010-0179855       | 12/351,749      | US | UTL | Large-Scale Behavioral Targeting For Advertising Over a Network                           | 1/9/2009   | 4/3/2012   |
| -                | 2010-0198688 A1    | 12/365,082      | US | UTL | Method, System, or Apparatus for a Truthful Pricing Scheme for a Seller                   | 2/3/2009   | -          |
| -                | 2010-0185642-A1    | 12/357,345      | US | UTL | INTEREST-BASED LOCATION TARGETING ENGINE  | 1/21/2009  | -          |
| -                | 2389652            | 10738894        | EP | UTL | User Interface for Interest-Based Targeted Marketing                                      | 1/6/2010   | -          |
| 1417800          | -                  | 99101366        | TW | UTL | User Interface for Interest-Based Targeted Marketing                                      | 1/19/2010  | 12/1/2013  |
| -                | 2010-0185517-A1    | 12/357,311      | US | UTL | User Interface for Interest-Based Targeted Marketing                                      | 1/21/2009  | -          |

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|           |                    |                   |    |     |  |                      |
|-----------|--------------------|-------------------|----|-----|--|----------------------|
| -         | 2010/090783        | PCT/US2010/020210 | WO | UTL | User Interface for Interest-Based Targeted Marketing                               | 1/6/2010 -           |
| -         | 2010-0185509-A1    | 12/357,285        | US | UTL | Interest-Based Ranking System for Targeted Marketing                               | 1/21/2009 -          |
| -         | 2010-0223252       | 12/395,931        | US | UTL | Personalized Search Results Utilizing Previously Navigated Web Sites               | 3/2/2009 -           |
| 8484180   | 2010-0228742       | 12/477,819        | US | UTL | Graph-Based Seed Selection Algorithm For Web Crawlers                              | 6/3/2009 7/9/2013    |
| 8019746   | 2010-0223546       | 12/396,163        | US | UTL | Optimized Search Result Columns On Search Results Pages                            | 3/2/2009 9/13/2011   |
| 8306966   | 2011-0295682       | 13/205,770        | US | UTL | Optimized Search Result Columns On Search Results Pages                            | 8/9/2011 11/6/2012   |
| 102483641 | 102483641          | 201080017605      | CN | UTL | Cold Row Encapsulation for Server Farm Cooling System                              | 3/31/2010 1/7/2015   |
| -         | HK1167480          | 12107979          | HK | UTL | All-In-One Chinese Character Input Method  | 5/28/2010 -          |
| 1470450   | 201118600          | 99117920          | TW | UTL | All-In-One Chinese Character Input Method and Electronic Device Thereof            | 6/3/2010 1/21/2015   |
| 9104244   | 2010-0309137       | 12/479,668        | US | UTL | All-In-One Chinese Character Input Method  | 6/5/2009 8/11/2015   |
| -         | WO/2010/141389     | PCT/US10/36751    | WO | UTL | All-In-One Chinese Character Input Method  | 5/28/2010 -          |
| -         | 2010-0260065 A1    | 12/423,421        | US | UTL | Constructing a Data Pipeline Having Scalability and Low Latency                    | 4/14/2009 -          |
| -         | 2011-0087553       | 12/579,163        | US | UTL | Bitrate Preview For Video Objects  | 10/14/2009 -         |
| 7984330   | 2010-0223620       | 12/395,338        | US | UTL | Smart Recovery Of Asynchronous Processing  | 2/27/2009 7/19/2011  |
| 8095560   | 20100217695        | 12/393,575        | US | UTL | Edge Attribute Aggregation in a Directed Graph                                     | 2/26/2009 1/10/2012  |
| 8073877   | US-2010-0185691-A1 | 12/356,467        | US | UTL | Scalable Semi-Structured Named Entity Detection                                    | 1/20/2009 12/6/2011  |
| -         | 2010-0217668 A1    | 12/393,942        | US | UTL | Optimizing Delivery of Online Advertisements                                       | 2/26/2009 -          |
| 8359280   | 2010-0235317       | 12/403,140        | US | UTL | Diversifying Recommendation Results Through Explanation                            | 3/12/2009 1/22/2013  |
| 8965869   | 2010-0293185 A1    | 12/465,599        | US | UTL | Systems and Methods for Generating a Web Page Based on Search Term Popularity Data | 5/13/2009 2/24/2015  |
| -         | 2010-0223119 A1    | 12/396,301        | US | UTL | Advertising Through Product Endorsements in Social Networks                        | 3/2/2009 -           |
| -         | 20100250332        | 12/414,166        | US | UTL | System and Method for Adaptive Bidding for Display Advertising                     | 3/30/2009 -          |
| 8412652   | 2010-0227301       | 12/398,126        | US | UTL | Apparatus and Methods for Operator Training in Information Extraction              | 3/4/2009 4/2/2013    |
| -         | 2010-0257021       | 12/418,613        | US | UTL | Checking Caplimits   | 4/6/2009 -           |
| 8700648   | 20100235389        | 12/404,345        | US | UTL | Context Based Networking   | 3/16/2009 4/15/2014  |
| 9152702   | 2011-0252013 A1    | 12/757,227        | US | UTL | System and method for selecting search results facets                              | 4/9/2010 10/6/2015   |
| 8041715   | 2010-0250527       | 12/410,037        | US | UTL | Sponsored Search Results Re-Ranking Based on Linking Associations                  | 3/24/2009 10/18/2011 |
| 8429157   | 2012/0030185       | 13/253,527        | US | UTL | Sponsored Search Results Re-Ranking Based on Linking Associations                  | 10/5/2011 4/23/2013  |
| 8392828   | 2010-0299586       | 12/454,653        | US | UTL | Open Theme Builder and API   | 5/20/2009 3/5/2013   |

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|--------------|-----------------|-------------------|-----|---|--|--------------|------------|
| -            | 2010-0191574-A1 | 12/361,698        | US  | UTL   | Maximizing Content and Advertiser Impressions Using a Single Common Identifier   | 1/29/2009 -  |            |
| 2010221389   | -               | 2010221389 AU     | UTL | System and method for contextual advertising based on status messages | 3/3/2010   | 6/25/2013    |            |
| 201080017607 | 102405451       | 201080017607      | CN  | UTL   | Cold Row Encapsulation for Server Farm Cooling System  | 3/31/2010    | 10/22/2014 |
| -            | 2404269         | 10749269 EP       | EP  | UTL   | System and Method for Contextual Advertising Based on Status Messages  | 3/3/2010 -   |            |
| -            | 1166405         | 12106896 HK       | HK  | UTL   | System and Method for Contextual Advertising Based on Status Messages  | 3/3/2010 -   |            |
| -            | 45/2012         | 6229/CHENP/2011   | IN  | UTL   | System and Method for Contextual Advertising based on status messages  | 3/3/2010 -   |            |
| -            | 2010-0223582 A1 | 12/399,669        | US  | UTL   | System and method for contextual advertising based on status messages  | 3/6/2009 -   |            |
| -            | 2010/102012     | PCT/US2010/026063 | WO  | UTL   | System and method for contextual advertising based on status messages  | 3/3/2010 -   |            |
| 8041733      | 2010-0094854-A1 | 12/368,074        | US  | UTL   | A System for Automatically Categorizing Queries System and Method for Composite Record Keys Ordered in a Flat Key Space for a Distributed Database | 2/9/2009     | 10/18/2011 |
| 8027961      | 2010-0223240    | 12/395,597        | US  | UTL   | System and Method for Finding Top N Pairs in a Map-Reduce Setup  | 2/27/2009    | 9/27/2011  |
| 8788499      | 2011-0055243    | 12/548,788        | US  | UTL   | Time Differentiation Based Advertising   | 8/27/2009    | 7/22/2014  |
| -            | 2010-0299214    | 12/470,490        | US  | UTL   | Content Summary and Segment Creation   | 5/22/2009 -  |            |
| 8386935      | 2010-0287475    | 12/436,551        | US  | UTL   | Dynamic Access Control Lists   | 5/6/2009     | 2/26/2013  |
| -            | 2010-0325686 A1 | 12/489,965        | US  | UTL   | Automatic Classification of Segmented Portions of Web Pages  | 6/23/2009 -  |            |
| 8849725      | 2011-0035345    | 12/538,776        | US  | UTL   | Automatic Classification of Segmented Portions of Web Pages  | 8/10/2009    | 9/30/2014  |
| -            | 2015-0066934 A1 | 14/480,528        | US  | UTL   | Automatic Classification of Segmented Portions of Web Pages  | 9/8/2014 -   |            |
| -            | 2011-0035374 A1 | 12/538,711        | US  | UTL   | Segment Sensitive Query Matching of Documents  | 8/10/2009 -  |            |
| -            | 2010-0332493 A1 | 12/491,778        | US  | UTL   | Semantic Search Extensions For Web Search Engines  | 6/25/2009 -  |            |
| -            | 2010-0250335    | 12/415,879        | US  | UTL   | System and method using text features for click prediction of sponsored search advertisements  | 3/31/2009 -  |            |
| -            | 2011-0093331    | 12/581,638        | US  | UTL   | Term Weighting for Contextual Advertising  | 10/19/2009 - |            |
| 8341157      | 2011-0029541    | 12/533,299        | US  | UTL   | System and Method for Intent-Driven Search Result Presentation   | 7/31/2009    | 12/25/2012 |
| -            | 2011-0029561 A1 | 12/533,475        | US  | UTL   | Image Similarity from Disparate Sources  | 7/31/2009 -  |            |
| 8024336      | 2010-0312786    | 12/481,196        | US  | UTL   | System and Method for Development of Search Success Metrics  | 6/9/2009     | 9/20/2011  |
| -            | CN102405452A    | 201080017609 X    | CN  | UTL   | Cold Row Encapsulation For Server Farm Cooling System  | 3/31/2010 -  |            |
| -            | HK1167475       | 12107639          | HK  | UTL   | Open Search Assist   | 5/18/2010 -  |            |
| 10-1432394   | -               | 10-2012-7000054   | KR  | UTL   | Open Search Assist   | 5/18/2010    | 8/13/2014  |
| 1419000      | -               | 99117226          | TW  | UTL   | Open Search Assist   | 5/28/2010    | 12/11/2013 |

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|                   |                    |                   |    |     |   |            |            |
|-------------------|--------------------|-------------------|----|-----|---|------------|------------|
| 8825691           | 2010/0312773       | 12/477,671        | US | UTL | Open Search Assist  | 6/3/2009   | 9/2/2014   |
| -                 | 2010/141214        | PCT/US2010/035268 | WO | UTL | Open Search Assist  | 5/18/2010  | -          |
| 8607224           | 2010/0306759       | 12/473,914        | US | UTL | System for Packaging Native Program Extensions Together With Virtual Machine Applications               | 5/28/2009  | 12/10/2013 |
| ZL 201080023245.6 | 102449626          | 201080023246      | CN | UTL | Open Search Assist  | 5/18/2010  | 1/13/2016  |
| -                 | 2396625            | 10741617          | EP | UTL | Entity-Based Search Results and Clusters on Maps  | 2/9/2010   | -          |
| -                 | -                  | 61/152,663        | US | PRV | Entity-Based Search Results and Clusters on Maps  | 2/13/2009  | -          |
| -                 | US 2010/0211566A1  | 12/489,935        | US | UTL | Entity-Based Search Results and Clusters on Maps  | 6/23/2009  | -          |
| -                 | 2010/093618        | PCT/US2010/023609 | WO | UTL | Entity-Based Search Results and Clusters on Maps  | 2/9/2010   | -          |
| 8744978           | 2011-0022549       | 12/506,926        | US | UTL | Presenting Search Results Based on User-Customizable Criteria   | 7/21/2009  | 6/3/2014   |
| -                 | -                  | 61/152,667        | US | PRV | Best Fit Algorithm for Searching on Map   | 2/13/2009  | -          |
| 8060510           | US 2010/0211909A1  | 12/432,172        | US | UTL | Best Fit Map Searching  | 4/29/2009  | 11/15/2011 |
| -                 | 2012-0101907       | 12/909,231        | US | UTL | Securing Expandable Display Advertisements in a Display Advertising Environment                         | 10/21/2010 | -          |
| 8180755           | -                  | 12/554,401        | US | UTL | Matching Reviews with Objects using a Language Model  | 9/4/2009   | 5/15/2012  |
| 8607338           | 2011-0035800       | 12/535,514        | US | UTL | Malicious Advertisement Management  | 8/4/2009   | 12/10/2013 |
| 1424369           | -                  | 99121797          | TW | UTL | Activity Based User Interest Modeling for Determining Content Relevance                                 | 7/2/2010   | 1/21/2014  |
| 8612435           | 2011-0016121       | 12/504,527        | US | UTL | Activity Based Users' Interests Modeling for Determining Content Relevance                              | 7/16/2009  | 12/17/2013 |
| 8380570           | 2011-0099059       | 12/606,400        | US | UTL | Index-Based Technique Friendly CTR Prediction And Advertisement Selection                               | 10/27/2009 | 2/19/2013  |
| -                 | 2011-0225048 A1    | 12/720,591        | US | UTL | Generating a User Profile Based on Self Disclosed Public Status Information                             | 3/9/2010   | -          |
| 8793239           | 2011-0087646       | 12/576,011        | US | UTL | Method and System for Form-Filling Crawl and Associating Rich Keywords                                  | 10/8/2009  | 7/29/2014  |
| 8280829           | -                  | 12/504,460        | US | UTL | Efficient Algorithm For Pairwise Preference Learning  | 7/16/2009  | 10/2/2012  |
| 8326777           | 2011-0029461       | 12/533,632        | US | UTL | Supplementing a Trained Model Using Incremental Data in Making Item Recommendations                     | 7/31/2009  | 12/4/2012  |
| 8762318           | 2013-0024318       | 13/618,647        | US | UTL | Supplementing a Trained Model Using Incremental Data in Making Item Recommendations                     | 9/14/2012  | 6/24/2014  |
| 8914316           | US 2011-0029477 A1 | 12/534,596        | US | UTL | Information Similarity and Related Statistical Techniques for Use in Distributed Computing Environments | 8/3/2009   | 12/16/2014 |
| 8856027           | 2011-0083031       | 12/575,257        | US | UTL | System and Method for Slow Ad Detection   | 10/7/2009  | 10/7/2014  |

PATENT

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|                   |                 |              |                  |    |     |  |            |            |
|-------------------|-----------------|--------------|------------------|----|-----|--|------------|------------|
| -                 | 2010271314      | -            | 2010271314       | AU | UTL | Feature-Value Recommendations for Advertisement Campaign Performance Improvement   | 8/5/2009 - |            |
| 8204904           | 2011-0035272 A1 | 12/536,113   |                  | US | UTL | Network Graph Evolution Rule Generation  | 9/30/2009  | 6/19/2012  |
| 8676840           | 2011-0078189    | 12/570,582   |                  | US | UTL | Network Graph Evolution Rule Generation  | 6/6/2012   | 3/18/2014  |
| -                 | 2012-0246196    | 13/490,247   |                  | US | UTL | Network Graph Evolution Rule Generation  | 12/23/2013 | -          |
| -                 | 2014-0115155 A1 | 14/138,501   |                  | US | UTL | Taxonomy-Driven Lumping for Sequence Mining  | 8/3/2009   | 1/1/2013   |
| 8346686           | 2011/0029475    | 12/534,706   |                  | US | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | 7/24/2014  |
| -                 | 2010271314      | -            | 2010271314       | AU | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012  | -          |
| -                 | -               | -            | 2012309048       | AU | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | 2014202854       | AU | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | BR112012000508.1 | BR | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | BR112014005533.5 | BR | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012  | -          |
| -                 | -               | -            | 2765381          | CA | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | 2846163          | CA | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012  | -          |
| ZL 201080023915.4 | 102449579 A     | 201080023915 | 201080023915     | CN | UTL | All-In-One Chinese Character Input Method Media Identification System With Fingerprint Database Balanced According To Search Loads | 5/28/2010  | 10/21/2015 |
| ZL 201080024642.5 | 102483731       | 201080024643 | 201080024643     | CN | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 5/11/2010  | 11/25/2015 |
| -                 | -               | -            | 10797887         | EP | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | 12831739         | EP | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012  | -          |
| -                 | -               | -            | 12107981         | HK | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | HK1167483       |              | 14107314         | HK | UTL | Integrated building based air handler for server farm cooling system   | 8/17/2012  | -          |
| -                 | -               | 1194132      | 230915           | IL | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | 44/2012         |              | 1/CHENP/2012     | IN | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | 10/23/2015 |
| -                 | 5826172         | 2012-533123  | 2012-519747      | JP | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| -                 | -               | -            | 2014-530673      | JP | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012  | -          |
| -                 | 2015-072698     |              | 2014-232828      | JP | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | -          |
| 10-1417537        | -               | -            | 10-2012-7000454  | KR | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | 7/1/2014   |
| 10-1473626        | -               | -            | 10-2014-7005985  | KR | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 7/9/2010   | 12/10/2014 |



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|         |               |                   |               |     |   |  |                    |
|---------|---------------|-------------------|---------------|-----|---|--|--------------------|
| -       | -             | -                 | PI2012000029  | MY  | UTL   | Integrated Building Based Air Handler for Server Farm Cooling System | 7/9/2010 -         |
| -       | -             | -                 | PI 2014000698 | MY  | UTL   | Integrated Building Based Air Handler for Server Farm Cooling System | 8/17/2012 -        |
| 597094  | 597094        | 597094            | 597094        | NZ  | UTL   | Integrated Building Based Air Handler for Server Farm Cooling System | 7/9/2010 10/1/2013 |
| 2510523 | -             | 2012104532        | RU            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 3/27/2014   |                    |
| -       | -             | 2013156575        | RU            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 -   |                    |
| -       | -             | 2014114446        | RU            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 8/17/2012 -  |                    |
| 177494  | -             | 201200035-2       | SG            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 6/9/2014  |                    |
| -       | -             | 2014014245        | SG            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 8/17/2012 -  |                    |
| -       | -             | 10201401265X      | SG            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 -   |                    |
| -       | -             | 99122627          | TW            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 -   |                    |
| -       | -             | 101130767         | TW            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 8/24/2012 -  |                    |
| -       | 2011-0009047  | 12/500,520        | US            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2009 -   |                    |
| -       | 2013-0244563  | 13/765,185        | US            | UTL | INTEGRATED BUILDING BASED AIR HANDLER FOR SERVER FARM COOLING SYSTEM  | 2/12/2013 -  |                    |
| -       | 2011/006027   | PCT/US2010/041459 | WO            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 7/9/2010 -   |                    |
| -       | WO2013/039645 | PCT/US2012/051270 | WO            | UTL | Integrated Building Based Air Handler for Server Farm Cooling System  | 8/17/2012 -  |                    |
| -       | 2011-0022465  | 12/509,209        | US            | UTL | System and Method for Managing Online Experiences Based on User Sentiment Characteristics and Publisher Targeting Goals Determining A Mood Of A User Based On Biometric Characteristics Of The User In An Online System | 7/24/2009 -  |                    |
| -       | 2010-0332842  | 12/494,984        | US            | UTL | System and Method for Offline Data Generation for Online System Analysis  | 6/30/2009 -  |                    |
| 8321873 | 20100313205   | 12/481,509        | US            | UTL | System and Method for Verified Presence Marketplace   | 6/9/2009 11/27/2012  |                    |
| -       | 2011-0040691  | 12/540,098        | US            | UTL | System and Method for Verified Monetization of Commercial Campaigns   | 8/12/2009 -  |                    |
| -       | 2011-0035265  | 12/536,892        | US            | UTL | Personal Data Platform  | 8/6/2009 -   |                    |
| 8914342 | 2011-0040736  | 12/540,269        | US            | UTL | Personal Data Platform  | 8/12/2009 12/16/2014   |                    |
| -       | 2015-0142881  | 14/570,846        | US            | UTL | Entropy-based mixing and personalization  | 12/5/2014 -  |                    |
| 8533202 | 2011-0010371  | 12/499,040        | US            | UTL | Entropy-Based Mixing And Personalization  | 7/7/2009 9/10/2013   |                    |
| -       | 2014-0006422  | 14/019,931        | US            | UTL |   | 9/6/2013 -   |                    |

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|                   |                    |                 |    |     |   |                        |
|-------------------|--------------------|-----------------|----|-----|---|------------------------|
| -                 | 2011-0225038 A1    | 12/724,415      | US | UTL | System and Method for Efficiently Evaluating Complex Boolean Expressions              | 3/15/2010 -            |
| 8442929           | 2011-0107260       | 12/613,503      | US | UTL | Predicting Item-Item Affinities Based On Item Features By Regression                  | 11/5/2009 - 5/14/2013  |
| -                 | 2011-0066495 A1    | 12/557,869      | US | UTL | System and Method for Customizing Ads in Web and Mobile Applications                  | 9/11/2009 -            |
| -                 | 2011-0071898 A1    | 12/565,742      | US | UTL | System and Method for Updating Search Advertisements During Search Results Navigation | 9/23/2009 -            |
| 8499008           | 2011-0022550       | 12/509,310      | US | UTL | Mixing Knowledge Sources with Auto Learning For Improved Entity Extraction            | 7/24/2009 - 7/30/2013  |
| 8635584           | US 2011-0088009 A1 | 12/578,480      | US | UTL | Tutorial Systems for Code Creation and Provenance Tracking                            | 10/13/2009 - 1/21/2014 |
| 2010315818 -      |                    |                 | AU | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 - 11/28/2013 |
| -                 | CN102473028A       | 201080031058    | CN | UTL | Integrated Building Based Air Handler for Server Farm Cooling System                  | 7/9/2010 -             |
| -                 | 2467816            | 10828729        | EP | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 -            |
| -                 | -                  | 12191657        | EP | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 -            |
| -                 | 1172126            | 12112842        | HK | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 -            |
| -                 | 20/2013            | 2827/CHENP/2012 | IN | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 -            |
| 1478085           | 201124930          | 99134903        | TW | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/13/2010 - 3/21/2015 |
| -                 | 2011-0106615 A1    | 12/611,250      | US | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 11/3/2009 -            |
| -                 | 2011/056338        | PCT/US10/51462  | WO | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                    | 10/5/2010 -            |
| ZL 201080034724.8 | 102474715A         | 201080034725    | CN | UTL | System and Method for Pre-Caching Information on A Mobile Device                      | 7/29/2010 - 12/31/2014 |
| -                 | 2460131            | 10814142        | EP | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates          | 8/9/2010 -             |
| -                 | 1167499            | 12107985        | HK | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates          | 8/9/2010 -             |
| -                 | 20/2013            | 2829/CHENP/2012 | IN | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates          | 8/9/2010 -             |
| 8775945           | 2011-0061001       | 12/554,605      | US | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates          | 9/4/2009 - 7/8/2014    |
| -                 | 2011/028367        | PCT/US10/44894  | WO | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates          | 8/9/2010 -             |
| 8370286           | 2011-0035350       | 12/537,157      | US | UTL | System for Personalized Term Expansion and Recommendation                             | 8/6/2009 - 2/5/2013    |

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|                   |                 |                 |    |     |  |            |            |
|-------------------|-----------------|-----------------|----|-----|--|------------|------------|
| 8655842           | 2011-0040848    | 12/542,144      | US | UTL | Push Pull Caching For Social Network Information   | 8/17/2009  | 2/18/2014  |
| 9137329           | 2014-0136595 A1 | 14/157,867      | US | UTL | Push Pull Caching for Social Network Information   | 1/17/2014  | 9/15/2015  |
| 8055615           | 2011-0055156    | 12/547,409      | US | UTL | Method for Efficient Storage Node Replacement  | 8/25/2009  | 11/8/2011  |
| 8365064           | 20110047447A1   | 12/543,755      | US | UTL | Hyperlinking Web Content   | 8/19/2009  | 1/29/2013  |
| -                 | -               | 60/178,196      | US | PRV | Distributed active knowledge and process base allowing system elements to be shared within a collaborative framework | 1/26/2000  | -          |
| 7032006           | -               | 09/770,729      | US | UTL | Distributed active knowledge and process base allowing system elements to be shared within a collaborative framework | 1/26/2001  | 4/18/2006  |
| 8332334           | 2011-0071965    | 12/566,270      | US | UTL | System and Method for Cross Domain Learning for Data Augmentation  | 9/24/2009  | 12/11/2012 |
| -                 | 2011-0078027    | 12/570,883      | US | UTL | Method and System for Comparing Online Advertising Products  | 9/30/2009  | -          |
| -                 | 2014-0012660 A1 | 13/973,665      | US | UTL | Method and System for Comparing Online Advertising Products  | 8/22/2013  | -          |
| ZL 201080038391.6 | CN 1024838390A  | 201080038392    | CN | UTL | Synchronization Of Advertisement Display Updates With User Revistation Rates   | 8/9/2010   | 8/19/2015  |
| -                 | 1172186         | 12112849        | HK | UTL | Acquisition Of Out-Of-Vocabulary Translations By Dynamically Learning Extraction Rules                               | 9/25/2009  | -          |
| 8670974           | 2011-0178792    | 12/922,154      | US | UTL | Acquisition of Out-of-Vocabulary Translations by Dynamically Learning Extraction Rules                               | 9/10/2010  | 3/11/2014  |
| -                 | -               | PCT/CN09/01078  | WO | UTL | Acquisition of OOv Translations by Dynamically Learning Extraction Rules from the Web                                | 9/25/2009  | -          |
| -                 | 2011-0225037    | 12/720,528      | US | UTL | Advertising Exchange System Valuation of Information Services  | 3/9/2010   | -          |
| 8712843           | 2012-0059710    | 12/877,426      | US | UTL | Scoring Users of Network Based Services  | 9/8/2010   | 4/29/2014  |
| -                 | 2014-0222556 A1 | 14/245,488      | US | UTL | Scoring Users of Network Based Services  | 4/4/2014   | -          |
| -                 | 2011-0119128 A1 | 12/619,510      | US | UTL | Advertising Exchange System to Share Online Audiences  | 11/16/2009 | -          |
| -                 | CN 102483834A   | 201080039309    | CN | UTL | Monetization Of Interactive Networked-Based Information Objects  | 8/12/2010  | -          |
| -                 | 2465275         | 10808518        | EP | UTL | System and Method for Pre-Caching Information on A Mobile Device   | 7/29/2010  | -          |
| -                 | 1172477         | 12113094        | HK | UTL | System and Method for Precaching Information on a Mobile Device  | 7/29/2010  | -          |
| -                 | 44/2012         | 1069/CHENP/2012 | IN | UTL | System and Method for PreCaching Information on A Mobile Device  | 7/29/2010  | -          |
| 10-1320179        | -               | 10-2012-7006133 | KR | UTL | System and Method for PreCaching Information on A Mobile Device  | 7/29/2010  | 10/14/2013 |
| 1430173           | -               | 99126059        | TW | UTL | System and Method for Pre-Caching Information on A Mobile Device   | 8/5/2010   | 3/11/2014  |
| -                 | 201415366       | 102148384       | TW | UTL | System and Method for Pre-Caching Information on A Mobile Device   | 8/5/2010   | -          |

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|                   |                 |                   |    |     |  |              |            |
|-------------------|-----------------|-------------------|----|-----|--|--------------|------------|
| 8364611           | 2011-0040718    | 12/540,588        | US | UTL | System and Method for Pre-Caching Information on A Mobile Device   | 8/13/2009    | 1/29/2013  |
| -                 | 2013-0124442 A1 | 13/735,619        | US | UTL | System and Method for Precaching Information on a Mobile Device  | 1/7/2013 -   |            |
| -                 | 2011/019517     | PCT/US2010/043780 | WO | UTL | System and Method for Pre-Caching Information on A Mobile Device   | 7/29/2010 -  |            |
| -                 | 2011-0087673 A1 | 12/577,045        | US | UTL | Methods and Systems Relating to Ranking Functions for Multiple Domains                                       | 10/9/2009 -  |            |
| 8078642           | -               | 12/509,329        | US | UTL | Concurrent Traversal of Multiple Binary Trees  | 7/24/2009    | 12/13/2011 |
| 8838576           | 2011-0087684    | 12/577,534        | US | UTL | Posting List Intersection Parallelism In Query Processing  | 10/12/2009   | 9/16/2014  |
| 2010292908        | 2010292908      | 2010292908 AU     | AU | UTL | Monetization Of Interactive Network-Based Information Objects  | 8/12/2010    | 7/3/2014   |
| ZL 201080042031.3 | 102549572A      | 201080042031      | CN | UTL | Systems and methods for providing advanced search result page content  | 9/16/2010    | 11/25/2015 |
| -                 | -               | 16152042 EP       | EP | UTL | Monetization Of Interactive Networked-Based Information Objects  | 8/12/2010 -  |            |
| -                 | 1167498         | 12107983 HK       | HK | UTL | Monetization Of Interactive Network-Based Information Objects  | 8/12/2010 -  |            |
| -                 | 20/2013         | 2828/CHENP/2012   | IN | UTL | Monetization Of Interactive Network-Based Information Objects  | 8/12/2010 -  |            |
| 10-1405622        | -               | 10-2012-7008844   | KR | UTL | MONETIZATION OF INTERACTIVE NETWORKED-BASED INFORMATION OBJECTS  | 8/12/2010    | 6/2/2014   |
| -                 | 2011117125      | 99129645 TW       | TW | UTL | Monetization of interactive network-based information objects  | 9/2/2010 -   |            |
| -                 | 2011-0060667 A1 | 12/556,911        | US | UTL | Monetization Of Interactive Network-Based Information Objects  | 9/10/2009 -  |            |
| -                 | WO 2011/031408  | PCT/US10/45319    | WO | UTL | Monetization Of Interactive Network-Based Information Objects  | 8/12/2010 -  |            |
| 9135643           | 2011-0191185    | 12/699,150        | US | UTL | System And Method For Targeting Users For Content Delivery   | 2/3/2010     | 9/15/2015  |
| -                 | 2015-0339720 A1 | 14/816,296        | US | UTL | System And Method For Targeting Users For Content Delivery   | 8/3/2015 -   |            |
| -                 | 2011-0154341 A1 | 12/642,849        | US | UTL | System and Method for a Task Management Library to Execute Map-Reduce Applications in a Map-Reduce Framework | 12/20/2009 - |            |
| -                 | 2011-0112900    | 12/615,686        | US | UTL | Mid-Flight Online Advertisement Campaign Optimizer   | 11/10/2009 - |            |
| 9141966           | 2011-01535242   | 12/646,574        | US | UTL | Opinion Aggregation System   | 12/23/2009   | 9/22/2015  |
| -                 | 2011-0093789 A1 | 12/580,917        | US | UTL | Method and System for Completing An Edit Area Of A Web Page  | 10/16/2009 - |            |
| 8972436           | 2011/0099192    | 12/607,938        | US | UTL | Translation Model and Method for Matching Reviews to Objects   | 10/28/2009   | 3/3/2015   |
| 8112436           | 20110072021     | 12/563,357        | US | UTL | Semantic and Text Matching Techniques for Network Search   | 9/21/2009    | 2/7/2012   |

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|         |                    |            |    |     |   |              |            |
|---------|--------------------|------------|----|-----|---|--------------|------------|
| -       | 2011-0173217       | 12/686,166 | US | UTL | Locality-Sensitive Search Suggestions   | 1/12/2010 -  |            |
| 8239199 | 20110093270        | 12/580,255 | US | UTL | Replacing An Audio Portion  | 10/16/2009   | 8/7/2012   |
| 8392343 | 2012-0023043       | 12/840,598 | US | UTL | Estimating Probabilities of Events in Sponsored Search Using Adaptive Models  | 7/21/2010    | 3/5/2013   |
| 8174974 | 2011-0110231       | 12/617,442 | US | UTL | Voluntary Admission Control For Traffic Yield Management  | 11/12/2009   | 5/8/2012   |
| 9098856 | 2011-0041076       | 12/542,160 | US | UTL | Platform For Delivery Of Heavy Content To A User  | 8/17/2009    | 8/4/2015   |
| 8271408 | 2011-0099131       | 12/603,763 | US | UTL | Pairwise Ranking-Based Classifier   | 10/22/2009   | 9/18/2012  |
| 8706661 | US 2011-0113000 A1 | 12/616,021 | US | UTL | System And Method For Generating An Image Sprite  | 11/10/2009   | 4/22/2014  |
| -       | 2011-0264651       | 12/764,694 | US | UTL | Large Scale Entity-Specific Resource Classification   | 4/21/2010 -  |            |
| 8621376 | 2011/0099502       | 12/607,926 | US | UTL | Developer Interface and Associated Methods for System for Querying and Consuming Web-Based Data   | 10/28/2009   | 12/31/2013 |
| -       | 2011/0099185       | 12/607,804 | US | UTL | System for Querying and Consuming Web-Based Data and Associated Methods   | 10/28/2009 - |            |
| 8521754 | 2011/0099159       | 12/696,012 | US | UTL | System and Method for Web Data Transformation Sourcing  | 1/28/2010    | 8/27/2013  |
| 8396874 | 2011-0202537       | 12/707,109 | US | UTL | System and Method for Using Topic Messages to Understand Media Relating to an Event   | 2/17/2010    | 3/12/2013  |
| 9137574 | 2012-0030711       | 12/845,684 | US | UTL | Method or System to Predict Media Content Preferences   | 7/28/2010    | 9/15/2015  |
| 9043320 | 2011-0208707       | 12/710,008 | US | UTL | Enhanced Find-In-Page Functions in a Web Browser  | 2/22/2010    | 5/26/2015  |
| 9129263 | 2011-0131282       | 12/628,902 | US | UTL | System and Method for Automatically Building Up Topic-Specific Messaging Identities   | 12/1/2009    | 9/8/2015   |
| -       | 2011-0191167 A1    | 12/700,530 | US | UTL | System and Method for Exploring New Sponsored Search Listings of Uncertain Quality  | 2/4/2010 -   |            |
| -       | 2011-0173180 A1    | 12/687,596 | US | UTL | Search Engine Recency Using Content Preview System and Method for Finding Unexpected, but Relevant Content in an Information Retrieval System | 1/14/2010 -  |            |
| 8204878 | 2011-0179019       | 12/688,364 | US | UTL | Contract Auctions for Sponsored Search  | 1/15/2010    | 6/19/2012  |
| -       | 2011-0166942 A1    | 12/683,247 | US | UTL | System and Method for Automatic Matching of Contracts Using a Fixed-Length Predicate Representation   | 1/6/2010 -   |            |
| 8229933 | 20110213767        | 12/714,142 | US | UTL | Methods and Apparatuses for Clustering Electronic Documents Based on Structural Features and Static Content Features                          | 2/26/2010    | 7/24/2012  |
| 8832102 | 20110173197        | 12/685,945 | US | UTL | Apparatus And Methods For Classifying Senders Of Unsolicited Bulk Emails  | 1/12/2010    | 9/9/2014   |
| -       | 2011-0173142 A1    | 12/686,240 | US | UTL | Methods, Systems, and/or Apparatuses for Use in Searching for Information Using Computer Platforms  | 1/12/2010 -  |            |
| 8560536 | 20110225145        | 12/722,232 | US | UTL |   | 3/11/2010    | 10/15/2013 |

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|                  |                    |                 |                   |  |    |     |   |            |            |
|------------------|--------------------|-----------------|-------------------|--|----|-----|---|------------|------------|
| -                |                    | 20110213659     | 12/714,046        |  | US | UTL | System and Method for Automatic Matching of Contracts in an Inverted Index to Impression Opportunities Using Complex Predicates and Confidence Threshold Values | 2/26/2010  | -          |
| 8886641          |                    | 20110093459     | 12/579,855        |  | US | UTL | Incorporating Recency in Network Search Using Machine Learning  | 10/15/2009 | 11/11/2014 |
| -                |                    | 2011-0166927    | 12/683,658        |  | US | UTL | Dynamic Pricing Model for Online Advertising  | 1/7/2010   | -          |
| 8893034          |                    | 2011-0185311    | 12/695,098        |  | US | UTL | Motion Enabled Multi-Frame Challenge-Response Test  | 1/27/2010  | 11/18/2014 |
| -                |                    | 2011-0178871 A1 | 12/690,309        |  | US | UTL | Image Content Based Advertisement System  | 1/20/2010  | -          |
| 8423558          |                    | 2011-0196871    | 12/701,049        |  | US | UTL | Targeting Online Ads by Grouping and Mapping User Properties  | 2/5/2010   | 4/16/2013  |
| 8406571          |                    | 2011-0188770 A1 | 12/700,306        |  | US | UTL | AUTOMATIC SUPER-RESOLUTION  | 2/4/2010   | 3/26/2013  |
| 8768926          |                    | 2011-0167063    | 12/652,624        |  | US | UTL | TRANSFORMATION FOR IMAGES   | 1/5/2010   | 7/1/2014   |
| 8589231          |                    | 2011/0184817    | 12/696,006        |  | US | UTL | Techniques for Categorizing Web Pages   | 1/28/2010  | 11/19/2013 |
| 2010343183       |                    | -               | 2010343183        |  | AU | UTL | Sensitivity Categorization of Web Pages   | 12/17/2010 | 8/14/2014  |
| ZL201080042083.0 | 102549573 A        |                 | 201080042083      |  | CN | UTL | Search suggestion clustering and presentation   | 9/17/2010  | 7/9/2014   |
| -                | 2519896            |                 | 10844212          |  | EP | UTL | search result page content  | 12/17/2010 | -          |
| -                | 1175271            |                 | 13102249          |  | HK | UTL | Search Suggestion Clustering and Presentation   | 12/17/2010 | -          |
| -                | -                  |                 | 6637/CHEINP/2012  |  | IN | UTL | Search suggestion clustering and presentation   | 12/17/2010 | -          |
| 10-1443475       | -                  |                 | 10-2012-7019861   |  | KR | UTL | Search suggestion clustering and presentation   | 12/17/2010 | 9/16/2014  |
| 1482037          | 201135492          |                 | 99145451          |  | TW | UTL | Search suggestion clustering and presentation   | 12/23/2010 | 4/21/2015  |
| 8631004          | US 2011-0161311 A1 |                 | 12/648,220        |  | US | UTL | Search suggestion clustering and presentation   | 12/28/2009 | 1/14/2014  |
| -                | 2011/090638        |                 | PCT/US2010/061120 |  | WO | UTL | Search suggestion clustering and presentation   | 12/17/2010 | -          |
| -                |                    | 201227574       |                   |  | TW | UTL | Method and System for Non-Gaming On-Line Achievement Awards   | 11/3/2011  | -          |
| -                | 2012-0150759       |                 | 12/964,707        |  | US | UTL | Non-Gaming On-Line Achievement Awards   | 12/9/2010  | -          |
| -                | 2012/078806        |                 | PCT/US2011/63818  |  | WO | UTL | Non-Gaming On-Line Achievement Awards   | 12/7/2011  | -          |
| 8689136          | 2011-0191714       |                 | 12/699,201        |  | US | UTL | System and Method for Backend Advertisement Conversion  | 2/3/2010   | 4/1/2014   |
| -                | 2011-0258054 A1    |                 | 12/693,371        |  | US | UTL | Automatic generation of bid phrases for online advertising  | 1/25/2010  | -          |
| 8489674          | 20110225229        |                 | 12/722,411        |  | US | UTL | Distributed Publish/Subscribe System  | 3/11/2010  | 7/16/2013  |
| 9027100          | 2011-0167486       |                 | 12/652,578        |  | US | UTL | Client Side Ad Caching for Lower Ad Serving Latency   | 1/5/2010   | 5/5/2015   |
| 8214355          | 2011-0196866       |                 | 12/702,954        |  | US | UTL | Small Table: Multitenancy for lots of small tables on a cloud database  | 2/9/2010   | 7/3/2012   |
| -                | 2011-0218971       |                 | 12/719,510        |  | US | UTL | System, Method And Computer Program Product For Managing Caches   | 3/8/2010   | -          |
| 8276022          | 2011-0271145-A1    |                 | 12/771,906        |  | US | UTL | Efficient Failure Detection For Long Running Data Transfer Jobs   | 4/30/2010  | 9/25/2012  |
| -                | 2011-0196736 A1    |                 | 12/702,690        |  | US | UTL | KEYWORD BID OPTIMIZATION UNDER COST PER CLICK CONSTRAINTS   | 2/9/2010   | -          |

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|                   |                    |                  |    |     |   |              |            |
|-------------------|--------------------|------------------|----|-----|---|--------------|------------|
| 9053202           | 2011-0077935 A1    | 12/567,714       | US | UTL | Apparatus and Methods for User Generated Translation                                      | 9/25/2009    | 6/9/2015   |
| -                 | 2011-0196733       | 12/701,031       | US | UTL | Optimizing Advertisement Selection in Contextual Advertising Systems                      | 2/5/2010 -   |            |
| -                 | 2012-0124030       | 12/945,653       | US | UTL | Methods and Systems for Pathing Analysis  | 11/12/2010 - |            |
| 8521507           | 2012-0197627       | 12/864,208       | US | UTL | Bootstrapping Text Classifiers By Language Adaptation                                     | 7/22/2010    | 8/27/2013  |
| -                 | -                  | PCT/CN2010/00225 | WO | UTL | Bootstrapping Text Classifiers by Language Adaptation                                     | 2/22/2010 -  |            |
| 2011242677        | -                  | 2011242677       | AU | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011    | 7/16/2014  |
| -                 | 102598039 A        | 201080048643     | CN | UTL | Multimode Online Advertisements And Online Advertisement Exchanges                        | 10/5/2010 -  |            |
| ZL 201080059977.0 | 102687138          | 201080059977     | CN | UTL | Search suggestion clustering and presentation   | 12/17/2010   | 9/16/2015  |
| -                 | -                  | 11772670         | EP | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011 -  |            |
| -                 | HK1179710          | 13106684         | HK | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011 -  |            |
| -                 | -                  | 9727/CHENP/2012  | IN | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011 -  |            |
| 10-1473076        | -                  | 10-2012-7030481  | KR | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011    | 12/9/2014  |
| -                 | 201202952          | 100112756        | TW | UTL | NETWORK DEVICE, SYSTEM AND METHOD FOR SELECTIVELY ADDING SOCIAL DIMENSION TO WEB SEARCHES | 4/13/2011 -  |            |
| 8880520           | 2011-0264648       | 12/764,818       | US | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/21/2010    | 11/4/2014  |
| -                 | 2011/133716        | PCT/US11/33318   | WO | UTL | Selectively Adding Social Dimension To Web Searches                                       | 4/20/2011 -  |            |
| 8429170           | 2011-0196874       | 12/701,185       | US | UTL | System and method for discovering story trends in real time from user generated content   | 2/5/2010     | 4/23/2013  |
| 9235635           | 2013-0226560 A1    | 13/856,398       | US | UTL | System and Method for Discovering Story Trends in Real Time from User Generated Content   | 4/3/2013     | 1/12/2016  |
| 8886623           | US 2011-0252045 A1 | 12/755,652       | US | UTL | Large Scale Concept Discovery for Webpage Augmentation Using Search Engine Indexers       | 4/7/2010     | 11/11/2014 |
| -                 | 2011-0231387 A1    | 12/729,028       | US | UTL | Engaging Content Provisions   | 3/22/2010 -  |            |
| 8538842           | 2011-0196715       | 12/703,124       | US | UTL | System and Method for Financial Analysis and Brand Index in Brand Valuation               | 2/9/2010     | 9/17/2013  |
| -                 | 2011-0252041 A1    | 12/755,884       | US | UTL | Method and System for Determining Relevant Text in a Web Page                             | 4/7/2010 -   |            |
| -                 | CN102792244        | 201080063899     | CN | UTL | Preview Functionality for Increased Browsing Speed  | 12/6/2010 -  |            |
| -                 | HK1177645          | 13105521         | HK | UTL | Method and System for Action Suggestion Using Browser History                             | 4/4/2011 -   |            |

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|                    |                    |                   |    |     |   |             |            |
|--------------------|--------------------|-------------------|----|-----|---|-------------|------------|
| 8863000            | US 2011-0252342 A1 | 12/755,789        | US | UTL | Method and System for Action Suggestion Using Browser History   | 4/7/2010    | 10/14/2014 |
| -                  | 2011/126977        | PCT/US2011/031087 | WO | UTL | Method and System for Action Suggestion Using Browser History   | 4/4/2011 -  |            |
| 9135354            | 2011-0252329 A1    | 12/755,757        | US | UTL | Method and System for Topical Browser History Composition Model for Cloud-Hosted Serving Applications | 4/7/2010    | 9/15/2015  |
| 9229980            | 2011-0209007 A1    | 12/711,146        | US | UTL | Self-Targeting Local Ad System  | 2/23/2010   | 1/5/2016   |
| 9015595            | 2011-0179359       | 12/690,706        | US | UTL | Method and System for Performing Bi-Directional Search  | 1/20/2010   | 4/21/2015  |
| -                  | 2011-0252343 A1    | 12/755,938        | US | UTL | Systems and methods for providing advanced search result page content                                 | 4/7/2010 -  |            |
| 2010295607         | 2010295607         | 2010295607        | AU | UTL | Media Event Structure and Context Identification Using Short Messages                                 | 9/16/2010   | 8/21/2014  |
| ZL 201110043644.5  | 102164355A         | 201110043645      | CN | UTL | Systems and methods for providing advanced search result page content                                 | 2/22/2010   | 9/9/2015   |
| -                  | EP2467794          | 10817816          | EP | UTL | Systems and methods for providing advanced search result page content                                 | 9/16/2010 - |            |
| -                  | HK1172116          | 12112846          | HK | UTL | Systems and methods for providing advanced search result page content                                 | 9/16/2010 - |            |
| -                  | 20/2013            | 2916/CHENP/2012   | IN | UTL | Systems and methods for providing advanced search result page content                                 | 9/16/2010 - |            |
| 10-1375940         | 20120092598        | 10-2012-7010145   | KR | UTL | Systems and methods for providing advanced search result page content                                 | 9/16/2010   | 3/12/2014  |
| -                  | 20130094864        | 10-2013-7020685   | KR | UTL | Systems and methods for providing advanced search result page content                                 | 9/16/2010 - |            |
| 1454944            | 201120665          | 99131297          | TW | UTL | Systems and methods for providing advanced search result page content                                 | 9/15/2010   | 10/1/2014  |
| 8386455            | 2011-0072001       | 12/563,152        | US | UTL | Systems and methods for providing advanced search result page content                                 | 9/20/2009   | 2/26/2013  |
| -                  | 2011/035007        | PCT/US10/49095    | WO | UTL | Systems as Methods for Providing Advanced Search Result Page Content                                  | 9/16/2010 - |            |
| 2010295510         | 2010295510         | 2010295510        | AU | UTL | Mechanism for Supporting User Content Feeds   | 9/17/2010   | 12/4/2014  |
| ZL 2011180011238.9 | 102782681 A        | 201180011239      | CN | UTL | Systems and methods for providing advanced search result page content                                 | 2/28/2011   | 5/20/2015  |
| -                  | 2467795            | 10817877          | EP | UTL | Systems and methods for providing advanced search result page content                                 | 9/17/2010 - |            |
| 1172117            | 1172117            | 12112848          | HK | UTL | Systems and methods for providing advanced search result page content                                 | 9/17/2010   | 2/27/2015  |
| -                  | 21/2013            | 2915/CHENP/2012   | IN | UTL | Systems and methods for providing advanced search result page content                                 | 9/17/2010 - |            |
| 10-1361992         | 20120089859        | 10-2012-7010135   | KR | UTL | Systems and methods for providing advanced search result page content                                 | 9/17/2010   | 2/5/2014   |
| -                  | 201118620          | 99131565          | TW | UTL | Systems and methods for providing advanced search result page content                                 | 9/17/2010 - |            |
| 8386454            | 2011-0072000       | 12/563,151        | US | UTL | Systems and methods for providing advanced search result page content                                 | 9/20/2009   | 2/26/2013  |



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|                    |                 |                |    |     |  |                      |
|--------------------|-----------------|----------------|----|-----|--|----------------------|
| -                  | 2011/035095     | PCT/US10/49232 | WO | UTL | Systems and methods for providing advanced search result page content  | 9/17/2010 -          |
| 1432982            | 201118621       | 99131566       | TW | UTL | Systems, methods and computer Readable Media Comprising Program for Providing Advanced Search Result Page Content                                  | 9/17/2010 4/1/2014   |
| 8452762            | 2011-0072046    | 12/563,150     | US | UTL | Systems and methods for providing advanced search result page content  | 9/20/2009 5/28/2013  |
| 8214348            | 2011-0208708    | 12/712,800     | US | UTL | Finding keyword relationship using wisdoms from multiple Systems and Methods for Finding Keyword Relationships Using Wisdoms from Multiple Sources | 2/25/2010 7/3/2012   |
| -                  | 2011-0252060 A1 | 12/755,913     | US | UTL | Method and System for Topic-Based Browsing Enhancing Search Result Pages Using Content Licensed From Content Providers                             | 4/7/2010 -           |
| -                  | 2011-0178868    | 12/691,640     | US | UTL | System And Method For Rewarding A User For Sharing Activity Information With A Third Party   | 1/21/2010 -          |
| 8612891            | 2011-0202881    | 12/706,641     | US | UTL | System And Method For Presenting Geolocated Relevance-Based Content  | 2/16/2010 12/17/2013 |
| 8417683            | 2011-0202514    | 12/706,410     | US | UTL | System And Method For Presenting Geolocated Relevance-Based Content  | 2/16/2010 4/9/2013   |
| -                  | 2013-0204868 A1 | 13/789,080     | US | UTL | System And Method For Determining An Authority Rank For Real Time Searching  | 3/7/2013 -           |
| -                  | 2011-0202513 A1 | 12/706,349     | US | UTL | System and method for improving personalized search results through game interaction data  | 2/16/2010 -          |
| -                  | 2011-0218037 A1 | 12/719,069     | US | UTL | Automated User Behavior Feedback System For Whole Page Search Success Optimization   | 3/8/2010 -           |
| 8832101            | 2011-0202522    | 12/708,499     | US | UTL | User Specific Feed Recommendations   | 2/18/2010 9/9/2014   |
| ZL 2011180013115.9 | 102792299 A     | 201180013116   | CN | UTL | Method and System for Action Suggestion Using Browser History  | 2/22/2011 12/9/2015  |
| -                  | -               | 201180017232   | CN | UTL | Media Event Structure and Context Identification Using Short Messages  | 4/4/2011 -           |
| -                  | 1160718         | 12101014       | HK | UTL | Media Event Structure and Context Identification Using Short Messages  | 2/22/2010 -          |
| 10-1268693         | -               | 10-2011-15735  | KR | UTL | Media Event Structure and Context Identification Using Short Messages  | 2/22/2011 5/22/2013  |
| 1456410            | 201239646       | 100110272      | TW | UTL | METHOD, SYSTEM AND COMPUTER-READABLE STORAGE MEDIUM FOR MEDIA EVENT STRUCTURE AND CONTEXT IDENTIFICATION USING SHORT MESSAGES                      | 3/25/2011 10/11/2014 |
| 9084096            | 2011-0207482    | 12/710,126     | US | UTL | Media Event Structure and Context Identification Using Short Messages  | 2/22/2010 7/14/2015  |
| -                  | 2015-0339289 A1 | 14/725,574     | US | UTL | Media Event Structure and Context Identification Using Short Messages  | 5/29/2015 -          |
| 8275656            | 2011-0225042    | 12/722,524     | US | UTL | Maximum Likelihood Estimation Under A Covariance Constraint For Predictive Modeling  | 3/11/2010 9/25/2012  |
| 8645358            | 2011-0072010    | 12/768,860     | US | UTL | Systems and Methods For Personalized Search Sourcing   | 4/28/2010 2/4/2014   |
| 9009152            | 2011-0191316 A1 | 12/700,572     | US | UTL | Smart Widgets  | 2/4/2010 4/14/2015   |

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SCHEDULE OF ASSETS

|         |                 |                  |    |     |   |                        |
|---------|-----------------|------------------|----|-----|---|------------------------|
| -       | 2011-0264525    | 12/767,331       | US | UTL | SEARCHING A USER'S ONLINE WORLD   | 4/26/2010 -            |
| -       | -               | PCT/US11/33081   | WO | UTL | SEARCHING A USER'S ONLINE WORLD   | 4/19/2011 -            |
| 1444917 | 2011-0270676 A1 | 12/771,196       | US | UTL | Method, system and computer readable medium for placeholder bids in online advertising    | 12/29/2010 - 7/11/2014 |
| -       | 2011-0191191    | 12/697,773       | US | UTL | PLACEHOLDER BIDS IN ONLINE ADVERTISING  | 2/1/2010 -             |
| -       | 2011/094058     | PCT/US2011/20867 | WO | UTL | PLACEHOLDER BIDS IN ONLINE ADVERTISING  | 1/11/2011 -            |
| 8896604 | 2011-0187717    | 12/697,166       | US | UTL | Producing Optimization Graphs in Online Advertising Systems                               | 1/29/2010 - 11/25/2014 |
| -       | 2011-0208597    | 12/771,565       | US | UTL | Networked Based Modularized Advertisements  | 2/24/2010 -            |
| 8528054 | 2012-0054834    | 12/873,140       | US | UTL | Multi-step Challenge-Response Test  | 8/31/2010 - 9/3/2013   |
| 8554621 | 2011-0231248    | 12/726,149       | US | UTL | Impression-Trend Techniques For Providing A Display Advertising Supply Forecast           | 3/17/2010 - 10/8/2013  |
| -       | 2014-0019232 A1 | 14/031,943       | US | UTL | Impression-Trend Techniques for Providing a Display Advertising Supply Forecast           | 9/19/2013 -            |
| 8666990 | 2011-0225140    | 12/724,087       | US | UTL | System and method for determining authority ranking for contemporaneous content           | 3/15/2010 - 3/4/2014   |
| 8788342 | 2012-0316972    | 12/935,283       | US | UTL | Intelligent Feature Expansion Of Online Text Ads  | 9/28/2010 - 7/22/2014  |
| -       | 2011-0264531    | 12/767,246       | US | UTL | WATCHING A USER'S ONLINE WORLD  | 4/26/2010 -            |
| -       | 2011-0231243    | 12/726,518       | US | UTL | Customer State Based Targeting  | 3/18/2010 -            |
| -       | 2011-0231244    | 12/726,556       | US | UTL | TOP CUSTOMER TARGETING  | 3/18/2010 -            |
| -       | 2011-0251964 A1 | 12/759,434       | US | UTL | Pricing Guaranteed Delivery Contracts in Online Display                                   | 4/13/2010 -            |
| -       | 2012-0011112    | 12/831,014       | US | UTL | Ranking Specialization for a Search   | 7/6/2010 -             |
| 8888497 | 2011-0223571    | 12/723,400       | US | UTL | Emotional Web   | 3/12/2010 - 11/18/2014 |
| -       | 2011-0231245    | 12/726,610       | US | UTL | OFFLINE METRICS IN ADVERTISEMENT CAMPAIGN TUNING  | 3/18/2010 -            |
| 1456521 | 201203156       | 100108037        | TW | UTL | Online and offline advertising campaign optimization                                      | 3/10/2011 - 10/11/2014 |
| -       | 2011-0231246    | 12/726,683       | US | UTL | ONLINE AND OFFLINE ADVERTISING CAMPAIGN OPTIMIZATION                                      | 3/18/2010 -            |
| -       | 2011/115720     | PCT/US11/25088   | WO | UTL | ONLINE AND OFFLINE ADVERTISING CAMPAIGN OPTIMIZATION                                      | 2/16/2011 -            |
| 8751511 | 2011-0246457    | 12/749,972       | US | UTL | Ranking Of Search Results Based On Microblog Data   | 3/30/2010 - 6/10/2014  |
| -       | 2013-0073582-A1 | 13/234,333       | US | UTL | Web search results with live data   | 9/16/2011 -            |
| -       | 2011-0270676 A1 | 12/771,196       | US | UTL | Probabilistic Linking Approach for Serving Impressions in Guaranteed Delivery Advertising | 4/30/2010 -            |
| -       | 2011-0246307    | 12/751,693       | US | UTL | Mass-Based Approach for Serving Impressions in Guaranteed Delivery Advertising            | 3/31/2010 -            |
| -       | 2012-0084302    | 12/898,654       | US | UTL | Media or Content Tagging Determined by User Credibility Signals                           | 10/5/2010 -            |
| -       | 2012-0084226    | 12/898,644       | US | UTL | Measuring or Estimating User Credibility  | 10/5/2010 -            |
| 8744990 | 2012-0011095    | 12/833,303       | US | UTL | Rule Based, Proactive Web Browsing  | 7/9/2010 - 6/3/2014    |
| -       | 2012-0036122    | 12/852,415       | US | UTL | Contextual Indexing of Search Results   | 8/6/2010 -             |

SCHEDULE OF ASSETS

|                    |                 |                   |    |     |   |            |            |
|--------------------|-----------------|-------------------|----|-----|---|------------|------------|
| 2011221590         | -               | 2011221590        | AU | UTL | Mechanism for Supporting User Content Feeds Selectively Adding A Social Dimension To Web Searches | 2/28/2011  | 5/24/2014  |
| ZL 2011180019203.X | 1890663A        | 201180019203.X    | CN | UTL | Mechanism for Supporting User Content Feeds   | 4/20/2011  | 11/25/2015 |
| 2542979            | -               | 11751017          | DE | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | 1/14/2015  |
| 2542979            | 2542979         | 11751017          | EP | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | 1/14/2015  |
| 2542979            | -               | 11751017          | FR | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | 1/14/2015  |
| 2542979            | -               | 11751017          | GB | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | 1/14/2015  |
| -                  | HK1178273       | 13105038          | HK | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | -          |
| -                  | -               | 7455/CHE/2012     | IN | UTL | Mechanism for Supporting User Content Feeds   | 8/29/2012  | -          |
| 10-1434075         | -               | 10-2012-70222969  | KR | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | 8/19/2014  |
| 1467505            | 201203153       | 100105201         | TW | UTL | Mechanism for supporting user content feeds   | 2/17/2011  | 1/1/2015   |
| 8156240            | 20110213894     | 12/714,876        | US | UTL | Mechanism for Supporting User Content Feeds   | 3/1/2010   | 4/10/2012  |
| 8554944            | 2012-0179782    | 13,423,087        | US | UTL | Mechanism for Supporting User Content Feeds   | 3/16/2012  | 10/8/2013  |
| -                  | WO2011/109082   | PCT/US2011/000383 | WO | UTL | Mechanism for Supporting User Content Feeds   | 2/28/2011  | -          |
| -                  | 2011-0258034 A1 | 12/761,216        | US | UTL | Hierarchically-Structured Indexing And Retrieval Encoding and Accessing Position Data             | 4/15/2010  | -          |
| -                  | -               | 13/173,532        | US | UTL | Modeling And Scheduling Asynchronous Incremental Workflows  | 6/30/2011  | -          |
| 8949834            | 2011-0252427    | 12/755,621        | US | UTL | SEARCH ENGINE OUTPUT-ASSOCIATED BIDDING IN ONLINE ADVERTISING                                     | 4/7/2010   | 2/3/2015   |
| -                  | -               | 100101909         | TW | UTL | SEARCH ENGINE OUTPUT-ASSOCIATED BIDDING IN ONLINE ADVERTISING                                     | 1/19/2011  | -          |
| -                  | 2011-0191171    | 12/699,226        | US | UTL | SEARCH ENGINE OUTPUT-ASSOCIATED BIDDING IN ONLINE ADVERTISING                                     | 2/3/2010   | -          |
| -                  | 2011/097052     | PCT/US2011/20878  | WO | UTL | SEARCH ENGINE OUTPUT-ASSOCIATED BIDDING IN ONLINE ADVERTISING                                     | 1/11/2011  | -          |
| -                  | 2011-0238493    | 12/749,151        | US | UTL | Efficient Ad Selection in Ad Exchange with Intermediaries   | 3/29/2010  | -          |
| 8229786            | 2011-0246286    | 12/755,226        | US | UTL | Click Probability with Missing Features in Sponsored Search                                       | 4/6/2010   | 7/24/2012  |
| 8903736            | 2011-0246295    | 12/754,422        | US | UTL | Fast Networked Based Advertisement Selection  | 4/5/2010   | 12/2/2014  |
| 8255390            | 20110231390     | 12/725,310        | US | UTL | Session Based Click Features for Recency Ranking  | 3/16/2010  | 8/28/2012  |
| 8326815            | 20110231380     | 12/725,357        | US | UTL | Session Based Click Features for Recency Ranking  | 3/16/2010  | 12/4/2012  |
| 8620930            | 2011-0225173    | 12/721,577        | US | UTL | METHOD AND SYSTEM FOR DETERMINING SIMILARITY SCORE  | 3/11/2010  | 12/31/2013 |
| 8678359            | 2012-0161340 A1 | 12/977,621        | US | UTL | System And Method For Reducing Mineral Buildup On Drift Eliminators Of A Cooling Tower            | 12/23/2010 | 3/25/2014  |
| 9039809            | 2014-0151906 A1 | 14/174,915        | US | UTL | System And Method For Reducing Mineral Buildup On Drift Eliminators Of A Cooling Tower            | 2/7/2014   | 5/26/2015  |
| 9038992            | 2014-0151909 A1 | 14/176,112        | US | UTL | System And Method For Reducing Mineral Buildup On Drift Eliminators Of A Cooling Tower            | 2/9/2014   | 5/26/2015  |
| -                  | 2011-0251878 A1 | 12/759,170        | US | UTL | System for Processing Large Amounts of Data   | 4/13/2010  | -          |
| -                  | 2012-0166291 A1 | 12/977,313        | US | UTL | Bid Generation for Sponsored Search   | 12/23/2010 | -          |
| 9129300            | 2011-0264640    | 12/764,469        | US | UTL | Using External Sources for Sponsored Search Ad Selection  | 4/21/2010  | 9/8/2015   |
| -                  | 2011-0289080    | 12/782,999        | US | UTL | Search Results Summarized with Tokens   | 5/19/2010  | -          |

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SCHEDULE OF ASSETS

|   |            |                 |                 |    |     |   |                        |
|---|------------|-----------------|-----------------|----|-----|---|------------------------|
| - | 8533043    | 2011-0270672    | 12/769,446      | US | UTL | Ad Relevance In Sponsored Search  | 4/28/2010 -            |
| - | 8533043    | 2011-0246285    | 12/751,937      | US | UTL | Clickable Terms for Contextual Advertising  | 3/31/2010 - 9/10/2013  |
| - | 8838599    | 2011-0282874    | 12/780,850      | US | UTL | Efficient Lexical Trending Topic Detection Over Streams Of Data Using A Modified Sequitur Algorithm | 5/14/2010 - 9/16/2014  |
| - | 9146123    | 2011-0288764 A1 | 12/782,714      | US | UTL | Method and System for Providing Driving Directions  | 5/19/2010 - 9/29/2015  |
| - | -          | -               | PCT/US11/34409  | WO | UTL | METHOD AND SYSTEM FOR PROVIDING DRIVING DIRECTIONS  | 4/29/2011 -            |
| - | -          | 102870133A      | 201180021574    | CN | UTL | BID LANDSCAPE TOOL  | 4/29/2011 -            |
| - | -          | 2577522         | 11790166        | EP | UTL | Research Mission Identification   | 5/11/2011 -            |
| - | -          | HK1180780       | 13107799        | HK | UTL | Research Mission Identification   | 5/11/2011 -            |
| - | -          | -               | 5426/CHE/2012   | IN | UTL | Research Mission Identification   | 5/11/2011 -            |
| - | 10-1452082 | 20130029787     | 10-2012-7033741 | KR | UTL | Research Mission Identification   | 5/11/2011 - 10/10/2014 |
| - | 8768861    | 2011-0295776    | 12/790,895      | US | UTL | Research Mission Identification   | 5/31/2010 - 7/1/2014   |
| - | -          | 2011/152971     | PCT/US11/36065  | WO | UTL | Triggering system for research missions detection   | 5/11/2011 -            |
| - | -          | 2011-0264516    | 12/767,952      | US | UTL | Limiting Latency Due to Excessive Demand In Ad Exchange   | 4/27/2010 -            |
| - | -          | 2011-0252331    | 12/757,059      | US | UTL | METHOD AND SYSTEM FOR SOCIALIZING EVENTS  | 4/9/2010 -             |
| - | -          | 2011-0282732    | 12/778,400      | US | UTL | UNDERSTANDING AUDIENCE INTERESTS  | 5/12/2010 -            |
| - | -          | 201229941       | 100128320       | TW | UTL | Contextual Advertising With User Features   | 8/9/2011 -             |
| - | 9031863    | 2012-0047020 A1 | 12/806,802      | US | UTL | Contextual Advertising With User Features   | 8/19/2010 - 5/12/2015  |
| - | 9087332    | 2012-0054040    | 12/871,775      | US | UTL | Adaptive Targeting for Finding Look-Alike Users   | 8/31/2010 - 7/21/2015  |
| - | -          | 2014-0379746 A1 | 14/479,501      | US | UTL | System and method for providing topic cluster based updates   | 9/8/2014 -             |
| - | -          | -               | 112012025535    | BR | UTL | BID LANDSCAPE TOOL  | 4/29/2011 -            |
| - | -          | -               | 201180025762    | CN | UTL | Research Mission Identification   | 5/11/2011 -            |
| - | -          | HK1179728       | 13106682        | HK | UTL | BID LANDSCAPE TOOL  | 4/29/2011 -            |
| - | -          | -               | 10-2015-7000008 | KR | UTL | Online Bid Landscape Tool   | 4/29/2011 -            |
| - | -          | -               | -               | -  | -   | METHOD, SYSTEM AND COMPUTER READABLE STORAGE MEDIUM FOR BID LANDSCAPE                               | 5/5/2011 -             |
| - | -          | 2011-0276389    | 12/774,357      | US | UTL | BID LANDSCAPE TOOL  | 5/5/2010 -             |
| - | -          | -               | PCT/US11/34652  | WO | UTL | BID LANDSCAPE TOOL  | 4/29/2011 -            |
| - | 8751632    | 2011/0270965    | 12/770,665      | US | UTL | Methods for Web Site Analysis   | 4/29/2010 - 6/10/2014  |
| - | 8903837    | 201102252064    | 12/759,453      | US | UTL | Incorporating Geographical Locations in a Search Process  | 4/13/2010 - 12/2/2014  |
| - | -          | 2012-0005686 A1 | 12/829,265      | US | UTL | Annotating HTML Segments with Functional Labels   | 7/1/2010 -             |
| - | -          | 2011-0264511    | 12/764,732      | US | UTL | ONLINE SERVING THRESHOLD AND DELIVERY POLICY ADJUSTMENT   | 4/21/2010 -            |
| - | -          | 2011-0264513 A1 | 12/766,279      | US | UTL | Finding Predictive Cross-Category Search Queries for Behavioral Targeting                           | 4/23/2010 -            |

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SCHEDULE OF ASSETS

|         |                         |                 |    |     |   |             |            |
|---------|-------------------------|-----------------|----|-----|---|-------------|------------|
| 8407238 | 2011/0099194            | 12/770,651      | US | UTL | System and Methods for Enabling Arbitrary Developer Code Consumption of Web-Based Data  | 4/29/2010   | 3/26/2013  |
| -       | 2013-0151507 A1         | 13/759,843      | US | UTL | System and Methods for Enabling Arbitrary Developer Code Consumption of Web-Based Data Method and System for Determining Search Suggestions | 2/5/2013 -  |            |
| -       | 2012-0084147            | 12/897,187      | US | UTL | System for Conducting Demand-Side, Real-Time Bidding in an Advertising Exchange   | 10/4/2010 - |            |
| -       | 2012-0036023 A1         | 12/850,360      | US | UTL | Large-Scale User Modeling Experiments Using Real-Time Traffic   | 8/4/2010 -  |            |
| -       | 2012-005018             | 12/830,259      | US | UTL | EMOTIONAL MAPPING   | 7/2/2010 -  |            |
| 8442849 | 2011-0225021            | 12/723,520      | US | UTL | System and Method for Indexing Food Providers and Use of the Index in Search Engines  | 3/12/2010   | 5/14/2013  |
| 8903800 | 2011-0302148            | 12/792,447      | US | UTL | System and Method for Indexing Food Providers and Use of the Index in Search Engines  | 6/2/2010    | 12/2/2014  |
| -       | 9262532 2012-0030152 A1 | 12/847,989      | US | UTL | Ranking Entity Facets Using User Click Feedback   | 7/30/2010   | 2/16/2016  |
| 8504567 | 2012-0047131            | 12/861,774      | US | UTL | Automatically Constructing Titles   | 8/23/2010   | 8/6/2013   |
| -       | 2012-0084297            | 12/897,620      | US | UTL | Network-Resource-Specific Search Assistance   | 10/4/2010 - |            |
| -       | CN103069825A            | 201180035737    | CN | UTL | System and Method for Television Search Assistant   | 7/5/2011 -  |            |
| -       | -                       | 201180051023.X  | CN | UTL | Matching Items Of User-Generated Content To Entities  | 10/4/2011 - |            |
| -       | HK1163298               | 12103737        | HK | UTL | Online Handwriting Recognition Arrangement  | 7/28/2010 - |            |
| -       | -                       | -               | HK | UTL | System and Method for Online Handwriting Recognition in Web Queries   | -           |            |
| -       | -                       | -               | HK | UTL | SYSTEM AND METHOD FOR ONLINE HANDWRITING RECOGNITION IN WEB QUERIES   | -           |            |
| -       | -                       | 10-2012-0066382 | KR | UTL | System and method for online handwriting recognition in web queries   | 6/20/2012 - |            |
| -       | 201142627               | 99120215        | TW | UTL | System and method for online handwriting recognition in web queries   | 6/22/2010 - |            |
| -       | -                       | 104116772       | TW | UTL | System and method for online handwriting recognition in web queries   | 5/26/2015 - |            |
| 8930360 | US 2011-0295877 A1      | 12/789,980      | US | UTL | System and Method for Online Handwriting Recognition in Web Queries   | 5/28/2010   | 1/6/2015   |
| -       | -                       | 100125483       | TW | UTL | METHOD, SYSTEM AND COMPUTER READABLE MEDIUM FOR ADVERTISEMENT BRAND ENGAGEMENT VALUE  | 7/19/2011 - |            |
| -       | WO 2012/012298          | PCT/US11/44273  | WO | UTL | ADVERTISEMENT BRAND ENGAGEMENT VALUE  | 7/15/2011 - |            |
| 8990702 | 2012-0084662            | 12/894,569      | US | UTL | System and Method for Controlling A Networked Display   | 9/30/2010   | 3/24/2015  |
| 9160819 | 2015-0156283 A1         | 14/619,608      | US | UTL | System and Method for Controlling A Networked Display   | 2/11/2015   | 10/13/2015 |
| 8452747 | US 2012-0059816 A1      | 12/876,724      | US | UTL | Building Content In Q&A Sites By Auto-Posting Of Questions Extracted From Web Search Logs   | 9/7/2010    | 5/28/2013  |

SCHEDULE OF ASSETS

|            |                         |                 |    |     |   |                      |
|------------|-------------------------|-----------------|----|-----|---|----------------------|
| -          | 2012-0016877            | 12/835,954      | US | UTL | Clustering of Search Results  | 7/14/2010 -          |
| -          | 2012-0036148            | 12/852,426      | US | UTL | Socializing via Search  | 8/6/2010 -           |
| 8484077    | 2012-0022952            | 12/893,939      | US | UTL | Using Linear and Log-Linear Model Combinations for Estimating Probabilities of Events   | 9/29/2010 7/9/2013   |
| -          | 2013-0275235 A1         | 13/909,445      | US | UTL | Using Linear and Log-Linear Model Combinations for Estimating Probabilities of Events   | 6/4/2013 -           |
| -          | 2012-0054027 A1         | 12/871,240      | US | UTL | Network Based Advertisement System  | 8/30/2010 -          |
| 8478697    | 2012-0066053            | 12/882,599      | US | UTL | Determining Whether To Provide An Advertisement To A User Of A Social Network   | 9/15/2010 7/2/2013   |
| -          | 2013-0275212 A1         | 13/904,848      | US | UTL | Determining Whether To Provide An Advertisement To A User Of A Social Network   | 5/29/2013 -          |
| 8543518    | 2012-0023046            | 12/843,762      | US | UTL | Deducing Shadow User Profiles for Ad Campaigns  | 7/26/2010 9/24/2013  |
| 8442987    | 2012-0047151            | 12/859,277      | US | UTL | METHOD AND SYSTEM FOR PROVIDING CONTENTS BASED ON PAST QUERIES  | 8/19/2010 5/14/2013  |
| 8930390    | 2012-0089582            | 12/900,595      | US | UTL | Mouse Gesture Assisted Search   | 10/8/2010 1/6/2015   |
| -          | 2012-0030011 A1         | 12/847,530      | US | UTL | Systems and Methods for Estimating a Conversion Rate for a Digital Advertisement Based on Dwell Times Associated with the Digital Advertisement | 7/30/2010 -          |
| 8955044    | 2012-0084832            | 12/897,615      | US | UTL | Time Managed Challenge-Response Tests   | 10/4/2010 2/10/2015  |
| 8566160    | 2012-0259702            | 13/499,561      | US | UTL | Determining Placement Of Advertisements On Web Pages  | 3/30/2012 10/22/2013 |
| 9092537    | 2012-0066256 A1         | 12/882,561      | US | UTL | Method and System for Generating Search URLS  | 9/15/2010 7/28/2015  |
| 8849775    | 2012-0158740            | 12/969,146      | US | UTL | Caching Web Documents In Two Or More Caches   | 12/15/2010 9/30/2014 |
| -          | 2012-0050318 A1         | 12/872,626      | US | UTL | Content Preview Generation  | 8/31/2010 -          |
| -          | 9280528 2012-0084636 A1 | 12/896,942      | US | UTL | Method and system for processing and learning rules for extracting information from incoming web pages  | 10/4/2010 3/8/2016   |
| -          | 2012-0084159 A1         | 12/898,661      | US | UTL | User Credibility in Electronic Media Advertising  | 10/5/2010 -          |
| -          | CN 103270510A           | 201180062087    | CN | UTL | System and Method for Providing Contextual Actions on a Search Results Page   | 12/19/2011 -         |
| -          | -                       | 11812921        | EP | UTL | System and Method for Television Search   | 7/5/2011 -           |
| -          | 1181940                 | 13109108        | HK | UTL | System and Method for Television Search   | 7/5/2011 -           |
| 10-1386832 | -                       | 10-2013-7005163 | KR | UTL | System and Method for Television Search   | 7/5/2011 4/11/2014   |
| 1459799    | 201208353               | 100124642       | TW | UTL | System and Method for Television Search   | 7/12/2011 11/1/2014  |
| 8250077    | 2012-0030215            | 12/845,566      | US | UTL | System and Method for Television Search   | 7/28/2010 8/21/2012  |

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SCHEDULE OF ASSETS

|         |                    |                   |    |     |   |                                     |
|---------|--------------------|-------------------|----|-----|---|-------------------------------------|
| -       | 2012-0290586       | 13/554,872        | US | UTL | System and Method for Television Search Assistant   | 7/20/2012 -                         |
| -       | 2012/015565        | PCT/US2011/042965 | WO | UTL | System and Method for Television Search Assistant   | 7/5/2011 -                          |
| -       | 2012-0226641 A1    | 13/384,589        | US | UTL | Training A Search Query Intent Classifier Using Wiki Article Titles And A Search Click Log                        | 1/17/2012 -                         |
| 8606564 | US 2012-0109637 A1 | 12/917,389        | US | UTL | Extracting Rich Temporal Context For Business Entities and Events   | 11/1/2010 12/10/2013                |
| 8843817 | US 2012-0066579 A1 | 12/881,320        | US | UTL | System and Method for Obtaining User Information  | 9/14/2010 9/23/2014                 |
| -       | 2012-0010939       | 12/831,967        | US | UTL | SOCIAL NETWORK BASED ONLINE ADVERTISING   | 7/7/2010 -                          |
| 7739708 | US-2007-0027744-A1 | 11/281,919        | US | UTL | System and Method For Revenue Based Advertisement Placement   | 11/16/2005 6/15/2010                |
| 8423409 | 2012-0059722       | 12/874,543        | US | UTL | System and Method for Monetizing User-Generated Web Content   | 9/2/2010 4/16/2013                  |
| 8463827 | 2012-0173533       | 12/984,539        | US | UTL | Mining Global Email Folders for Identifying Auto-Folder Tags  | 1/4/2011 6/11/2013                  |
| -       | 2012-0054010       | 12/868,579        | US | UTL | Targeting Consumers By Paying Users to Share Online Coupons   | 8/25/2010 -                         |
| -       | 2012-0109737 A1    | 12/914,683        | US | UTL | Measuring the Effects of Social Sharing on Online Content and Advertising   | 10/28/2010 -                        |
| 8589378 | 2012-0089621       | 12/901,917        | US | UTL | Topic-Oriented Diversified Item Recommendation  | 10/11/2010 11/19/2013               |
| -       | 2012-0109956 A1    | 12/915,390        | US | UTL | Profile Prediction for Shared Computers   | 10/29/2010 -                        |
| -       | 2012-0030007       | 12/845,113        | US | UTL | ONLINE ADVERTISEMENT PROFILES   | 7/28/2010 -                         |
| -       | 2012-0005583 A1    | 12/827,781        | US | UTL | Method and System for Performing a Web Search   | 6/30/2010 -                         |
| 9152712 | 2012-0005626 A1    | 12/827,838        | US | UTL | Method and System for Performing a Web Search Via a Client-Side Module  | 6/30/2010 10/6/2015                 |
| 8489590 | 2012-0150855       | 12/966,983        | US | UTL | CROSS-MARKET MODEL ADAPTATION WITH PAIRWISE PREFERENCE DATA   | 12/13/2010 7/16/2013                |
| 1469075 | 2012224975         | 12/900,735        | TW | UTL | Search Container  | 10/6/2011 1/11/2015                 |
| -       | 20120089457        | PCT/US11/55565    | WO | UTL | Search Container  | 10/8/2010 -                         |
| -       | -                  | -                 | WO | UTL | Providing Content To A User From Multiple Sources Based On Interest Tag(S) That Are Included In An Interest Cloud | 10/10/2011 -                        |
| -       | 2012-0084657       | 12/894,461        | US | UTL | Method to Increase Content Relevance Using Insights Obtained from a User Activity Updates                         | 9/30/2010 -                         |
| 1491217 | 201304516          | 101116472         | TW | UTL | Method to Increase Content Relevance Using Insights Obtained from User Activity Updates                           | 5/9/2012 7/1/2015                   |
| 8838564 | 2012-0296920       | 13/111,928        | US | UTL | METHOD TO INCREASE CONTENT RELEVANCE USING INSIGHTS OBTAINED FROM USER ACTIVITY UPDATES                           | 5/19/2011 9/16/2014                 |
| -       | 2012/0030013       | PCT/US12/38532    | WO | UTL | RELEVANCE USING INSIGHTS OBTAINED FROM USER ACTIVITY UPDATES  | 5/18/2012 -                         |
| 8583502 | 2012-0016772       | 12/838,169        | US | UTL | Slideshows in Search Value Maximizing Recommendation Systems  | 7/27/2010 -<br>7/16/2010 11/12/2013 |

SCHEDULE OF ASSETS

|            |                 |                 |    |     |  |              |           |
|------------|-----------------|-----------------|----|-----|--|--------------|-----------|
| 8510248    | 2012-0130931    | 12/949,429      | US | UTL | Bootstrapping Recommender System and Method Measuring Inline Ad Performance for Third-Party Ad Serving   | 11/18/2010   | 8/13/2013 |
| -          | 2012-0078707 A1 | 12/894,000      | US | UTL | Combination Creative Advertisement Targeting System  | 9/29/2010 -  |           |
| 8510653    | 2012-0124466 A1 | 12/946,450      | US | UTL | Selection And/Or Modification Of An Ad Based On An Emotional State Of A User                             | 11/15/2010   | 8/13/2013 |
| -          | 2012-0158504    | 12/973,329      | US | UTL | NON-TEXTUAL SECURITY USING PORTRAITS   | 12/20/2010 - |           |
| 9075981    | 2012-0210409 A1 | 13/027,276      | US | UTL | Using Clicked Slate Driven Click-Through Rate Estimates in Sponsored Search                              | 2/15/2011    | 7/7/2015  |
| 8364525    | 2012-0136722    | 12/956,496      | US | UTL | Optimizing Server Resources Using Multiple Retry For High Traffic Websites                               | 11/30/2010   | 1/29/2013 |
| 9009253    | 2012-0209945 A1 | 13/028,888      | US | UTL | Search Assist Powered By Session Analysis  | 2/16/2011    | 4/14/2015 |
| 8255414    | 20120066195     | 12/882,974      | US | UTL | Signal-Driven Interactive Television   | 9/15/2010    | 8/28/2012 |
| -          | CN 103430563 A  | 201180062099    | CN | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 12/21/2011 - |           |
| -          | -               | 11853568        | EP | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 12/19/2011 - |           |
| -          | 1187710         | 14100675        | HK | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 12/19/2011 - |           |
| 10-1514588 | 20130094345     | 10-2013-7017062 | KR | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 12/19/2011   | 4/16/2015 |
| 1474198    | 201243629       | 100148240       | TW | UTL | System and method for providing targeted applications within a search results page                       | 12/23/2011   | 2/21/2015 |
| -          | -               | 103139717       | TW | UTL | Applications within a Search Results Page  | 11/17/2014 - |           |
| 9015140    | 2012-0173520 A1 | 12/981,860      | US | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 12/30/2010   | 4/21/2015 |
| -          | 2015-0199434 A1 | 14/665,285      | US | UTL | System and Method for Providing Contextual Actions on a Search Results Page                              | 3/23/2015 -  |           |
| -          | 2012/091976     | PCT/US11/65792  | WO | UTL | System for Training Classifiers in Multiple Categories Through Active Learning                           | 12/19/2011 - |           |
| 8498950    | 2012-0095943    | 12/905,543      | US | UTL | REVIEW AND PURCHASE RELATED INFORMATION AND ADVERTISING  | 10/15/2010   | 7/30/2013 |
| 8458160    | 2012-0059848    | 12/877,756      | US | UTL | System and Method for Delivering Advertising to Members of a Pseudo-Social Network                       | 9/8/2010     | 6/4/2013  |
| -          | 2012-0124617 A1 | 12/946,202      | US | UTL | MULTISIDED AUDIENCE-RELATED HYBRID MEASUREMENTS  | 11/15/2010 - |           |
| 8549103    | 2012-0089697    | 12/900,366      | US | UTL | MULTISIDED AUDIENCE-RELATED HYBRID MEASUREMENTS  | 10/7/2010    | 10/1/2013 |
| 8819292    | 2014-0006105-A1 | 14/016,927      | US | UTL | Method And System To Utilize Session Queries In Real Time To Improve Geo Precision Of Sponsored Listings | 9/3/2013     | 8/26/2014 |
| -          | 2012-0166468    | 12/979,737      | US | UTL |  | 12/28/2010 - |           |

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|         |                    |                   |    |     |   |                       |
|---------|--------------------|-------------------|----|-----|---|-----------------------|
| -       | 2012/0158492       | 12/970,340        | US | UTL | Method and System for Attention Based Advertisement Insertion   | 12/16/2010 -          |
| -       | 2012-0159329 A1    | 12/970,519        | US | UTL | System for Creating Anchors for Media Content   | 12/16/2010 -          |
| -       | 2012-0109732 A1    | 12/915,436        | US | UTL | Consumer Group Buying Through Online Ads  | 10/29/2010 -          |
| -       | 2012-0166075       | 12/975,392        | US | UTL | LOCATION-AWARE ADAPTIVE EVENT REMINDER  | 12/22/2010 -          |
| 8903845 | 2012-0166467       | 12/978,261        | US | UTL | Systems and Methods for Providing Search Assistance Technologies Based on User Self-Efficacy and Search Frustration | 12/23/2010 12/22/2014 |
| 1494843 | 201237736          | 100148244         | TW | UTL | Continuous Content Refinement Of Topics Of User Interest  | 12/23/2011 8/1/2015   |
| -       | -                  | 104114022         | TW | UTL | Continuous Content Refinement Of Topics Of User Interest  | 5/1/2015 -            |
| -       | 2012-0167010 A1    | 12/980,076        | US | UTL | Continuous Content Refinement Of Topics Of User Interest  | 12/28/2010 -          |
| -       | -                  | PCT/US11/66439    | WO | UTL | Interest  | 12/21/2011 -          |
| 8266149 | -                  | 12/965,801        | US | UTL | Clustering with Similarity-Adjusted Entropy   | 12/10/2010 9/11/2012  |
| 8601017 | US 2012-0166482 A1 | 12/977,130        | US | UTL | Serving reliable content through search   | 12/23/2010 12/3/2013  |
| 8478701 | 2012-0166367       | 12/975,386        | US | UTL | LOCATING A USER BASED ON AGGREGATED TWEET CONTENT ASSOCIATED WITH A LOCATION  | 12/22/2010 7/2/2013   |
| 9172666 | 2013-0275536 A1    | 13/914,285        | US | UTL | Locating A User Based On Aggregated Tweet Content Associated With A Location  | 6/10/2013 10/27/2015  |
| 8615510 | 2012-0054167       | 12/874,118        | US | UTL | Quick Applications for Search   | 9/1/2010 12/24/2013   |
| 8521679 | 2012-0158638       | 12/973,768        | US | UTL | CLASSIFICATION RECOMMENDATION BASED ON SOCIAL ACTIONS   | 12/20/2010 8/27/2013  |
| -       | 2012-0166275 A1    | 12/977,099        | US | UTL | PRIVACY ENHANCING DISPLAY   | 12/23/2010 -          |
| -       | 2015-0074146 A1    | 14/526,613        | US | UTL | ADVERTISMENT RECOMMENDATION USING TAGGING   | 10/29/2014 -          |
| 9213981 | 2012-0158843 A1    | 12/973,862        | US | UTL | Method and System For Discovering Dynamic Relations Among Entities  | 12/20/2010 12/15/2015 |
| 9189804 | 2014-0081744 A1    | 14/090,972        | US | UTL | Techniques For Improving Relevance Of Social Updates Distributed Offline  | 11/26/2013 11/17/2015 |
| 8620744 | -2012-0143672      | 12/982,539        | US | UTL | Systems and Methods for List Ranking and Ads Placement Using Interaction Features                                   | 12/30/2010 12/31/2013 |
| -       | WO/2012/075600     | PCT/CN2010/001976 | WO | UTL | List ranking for north Ads using interaction features   | 12/6/2010 -           |
| 8918331 | 2012-0158519       | 12/973,954        | US | UTL | Time-Triggered Advertisement Replacement  | 12/21/2010 12/23/2014 |
| -       | 2015-006656 A1     | 14/540,591        | US | UTL | Time-Triggered Advertisement Replacement  | 11/13/2014 -          |
| 8620745 | 2012-0191531       | 13/381,037        | US | UTL | Selecting Advertisements For Placement On Related Web Pages   | 12/27/2011 12/31/2013 |
| -       | 2012-0084310 A1    | 12/897,642        | US | UTL | Contextual Quick-Picks  | 10/4/2010 -           |

SCHEDULE OF ASSETS

|            |                 |                |    |     |  |                      |
|------------|-----------------|----------------|----|-----|--|----------------------|
| -          | 2012-0084142 A1 | 12/895,773     | US | UTL | BID LANDSCAPE FORECASTING IN ONLINE ADVERTISING  | 9/30/2010 -          |
| -          | 2012-0166416 A1 | 12/977,851     | US | UTL | Method And System To Identify Geographical Locations Associated With Queries Received At A Search Engine                     | 12/23/2010 -         |
| 8990241    | 2012-0166438 A1 | 12/977,942     | US | UTL | System And Method For Recommending Queries Related To Trending Topics Based On A Received Query                              | 12/23/2010 3/24/2015 |
| 8429027    | 2012-0116915    | 12/941,842     | US | UTL | Mobile-Based Real-Time Food-and-Beverage Recommendation System   | 11/8/2010 4/23/2013  |
| -          | WO2012/064664   | PCT/US11/59617 | WO | UTL | Mobile-Based Real-Time Food-and-Beverage Recommendation System   | 11/7/2011 -          |
| 8799260    | 2012-0158893    | 12/971,608     | US | UTL | Method And System For Generating Web Pages For Topics Unassociated With A Dominant URL                                       | 12/17/2010 8/5/2014  |
| 9137288    | 2012-0158825 A1 | 12/972,745     | US | UTL | Scalable Push-Head Architecture for Web Applications   | 12/20/2010 9/15/2015 |
| 8527564    | 2012-0158716    | 12/970,844     | US | UTL | Image Object Retrieval Based on Aggregation of Visual Annotations  | 12/16/2010 9/3/2013  |
| -          | 2012-0158515 A1 | 12/973,937     | US | UTL | DYNAMIC ADVERTISEMENT SERVING BASED ON AN AVATAR   | 12/21/2010 -         |
| -          | 2012-0150635    | 12/965,776     | US | UTL | System and Method for Booking an Advertisement to an Impression Using a Targeting Dimension Dictionary                       | 12/10/2010 -         |
| 8620720    | 2012-0278129    | 13/096,629     | US | UTL | Embedding Calendar Knowledge In Event-Driven Inventory Forecasting   | 4/28/2011 12/31/2013 |
| -          | 2014-0081696 A1 | 14/089,186     | US | UTL | Embedding Calendar Knowledge In Event-Driven Inventory Forecasting   | 11/25/2013 -         |
| 2011318397 | -               | 2011318397     | AU | UTL | Matching Items Of User-Generated Content To Entities   | 10/4/2011 2/18/2016  |
| -          | -               | 201280005547   | CN | UTL | Extraction And Matching Of Characteristic Fingerprints From Audio Signals  | 1/13/2012 -          |
| -          | 2630588         | 11834850       | EP | UTL | Matching Items Of User-Generated Content To Entities   | 10/4/2011 -          |
| -          | 1183949         | 13111151       | HK | UTL | Matching Items Of User-Generated Content To Entities   | 10/4/2011 -          |
| 1436223    | -               | 100137840      | TW | UTL | Matching Items Of User-Generated Content To Entities   | 10/19/2011 5/1/2014  |
| 8412771    | 2012-0102104    | 12/909,766     | US | UTL | Matching Items Of User-Generated Content To Entities   | 10/21/2010 4/2/2013  |
| -          | -               | PCT/US11/54761 | WO | UTL | Matching Items Of User-Generated Content To Entities   | 10/4/2011 -          |
| -          | 2013-0173568 A1 | 13/339,142     | US | UTL | Method or System for Identifying Website Link Suggestions  | 12/28/2011 -         |
| -          | 2012-0166292    | 12/979,928     | US | UTL | Systems and Methods for Pricing Portfolio Allocations of Ad Deliveries to Online Ads Using a Vickrey-Clarke-Groves Mechanism | 12/28/2010 -         |

SCHEDULE OF ASSETS

|         |                    |                |    |     |   |              |
|---------|--------------------|----------------|----|-----|---|--------------|
| -       | 2012-0150626       | 12/965,711     | US | UTL | System and Method for Automated Recommendation of Advertisement Targeting Attributes            | 12/10/2010 - |
| -       | 2012-0123859 A1    | 12/946,668     | US | UTL | ONLINE ADVERTISING WITH ENHANCED PUBLISHER INVOLVEMENT  | 11/15/2010 - |
| -       | 2012-0109745 A1    | 12/916,244     | US | UTL | NEWS COMMENT RELATED ONLINE ADVERTISING   | 10/29/2010 - |
| -       | 2012/0159371       | 12/969,121     | US | UTL | Relative-location Maps Based on Personalized Points of Reference                                | 12/15/2010 - |
| -       | 2012-0158507 A1    | 12/971,472     | US | UTL | Use of Personalized Points of Reference in Selecting Advertisements Shown to Users              | 12/17/2010 - |
| 9043360 | 20120158687        | 12/972,179     | US | UTL | Display Entry Relationship  | 12/17/2010   |
| -       | 2012-0158495 A1    | 12/972,941     | US | UTL | Inventory Allocation in Advertising Systems   | 12/20/2010 - |
| 1476716 | 201222944          | 100143266      | TW | UTL | Integrated and comprehensive advertising campaign management and optimization                   | 11/25/2011   |
| -       | 2012-0158485       | 12/969,928     | US | UTL | INTEGRATED AND COMPREHENSIVE ADVERTISING CAMPAIGN MANAGEMENT AND OPTIMIZATION                   | 12/16/2010 - |
| -       | -                  | PCT/US11/62252 | WO | UTL | ADVERTISING CAMPAIGN MANAGEMENT AND OPTIMIZATION  | 11/28/2011 - |
| -       | 2012-0158490       | 12/970,586     | US | UTL | Sponsored Search Auction Mechanism for Rich Media Advertising                                   | 12/16/2010 - |
| -       | 2012-0166277 A1    | 12/979,769     | US | UTL | Variation Of Minimum Advertisement Relevance Quality Threshold Based On Search Query Attributes | 12/28/2010 - |
| 8775336 | 2013-0159222 A1    | 13/330,405     | US | UTL | Interactive Interface for Object Search   | 12/19/2011   |
| -       | 2012-0084150       | 12/895,755     | US | UTL | EBOOK ADVERTISING AND RELATED TECHNIQUES  | 9/30/2010 -  |
| 8732014 | US 2012-0158525 A1 | 12/973,858     | US | UTL | Automatic classification of display ads using ad images and landing pages                       | 12/20/2010   |
| 8935177 | 2012-0166272       | 12/976,482     | US | UTL | Method and System for Anonymous Measurement of Online Advertisement Using Offline Sales         | 12/22/2010   |
| -       | 2012-0158493 A1    | 12/970,505     | US | UTL | Online Advertisement Inventory Management System  | 1/13/2015    |
| -       | 2012-0166259 A1    | 12/980,190     | US | UTL | Adjusting Demand Parameters to Reduce Allocation Errors in Display Advertising                  | 12/28/2010 - |
| 9105008 | 2012-0136985       | 12/955,007     | US | UTL | Detecting Controversial Events  | 11/29/2010   |
| -       | 2012-0254764 A1    | 13/078,795     | US | UTL | System to Suggest And Automatically Organize Events For Social Activities                       | 8/11/2015    |
| 8522327 | 2013-0042311-A1    | 13/206,583     | US | UTL | MULTI-STEP CAPTCHA WITH SERIAL TIME-CONSUMING DECRYPTION OF PUZZLES                             | 4/1/2011 -   |
| 8666927 | 2012-0271790       | 13/090,194     | US | UTL | System And Method For Mining Tags Using Social Endorsement Networks                             | 8/27/2013    |
|         |                    |                |    |     |   | 4/19/2011    |
|         |                    |                |    |     |   | 3/4/2014     |

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|         |                    |                   |    |     |  |              |
|---------|--------------------|-------------------|----|-----|--|--------------|
| -       | 2014-0108327 A1    | 14/136,477        | US | UTL | System And Method For Mining Tags Using Social Endorsement Networks  | 12/20/2013 - |
| -       | 2012-0284128       | 13/102,320        | US | UTL | Order-Independent Approximation For Order-Dependent Logic In Display Advertising                                 | 5/6/2011 -   |
| -       | 2013-0268348-A1    | 13/908,775        | US | UTL | Systems and Methods for Scoring Internet Ads and Ranking Vendors   | 6/3/2013 -   |
| -       | 2012-0254191 A1    | 13/077,995        | US | UTL | Method and system for concept summarization  | 4/1/2011 -   |
| 8819064 | 2012-0203782       | 13/022,334        | US | UTL | Method and System for Data Provenance Management in Multi-Layer Systems  | 2/7/2011     |
| -       | 2012-0254150 A1    | 13/078,002        | US | UTL | DYNAMIC ARRANGEMENT OF E-CIRCULARS IN RAIS (RICH ADS IN SEARCH)  | 8/26/2014    |
| -       | 2012-0191541       | 13/012,655        | US | UTL | ADVERTISEMENTS BASED ON REAL TIME AND PAST USER ACTIVITY   | 4/1/2011 -   |
| 8856028 | 2012-0191541       | 13/012,655        | US | UTL | Inventory Allocation for Advertising with Changeable Supply Landscape  | 1/24/2011    |
| -       | 2012-0191745       | 13/012,795        | US | UTL | Synthesized Suggestions for Web-Search Queries   | 1/24/2011 -  |
| -       | 2012-0191547 A1    | 13/014,280        | US | UTL | Dynamic Value Advertising  | 1/26/2011 -  |
| -       | US 2013-0007091 A1 | 13/175,782        | US | UTL | Methods and Apparatuses for Storing Shared Data Files in Distributed File Systems                                | 7/1/2011 -   |
| -       | 2012-0150655       | 12/964,524        | US | UTL | INTRA-BOOK LOCATION DETECTION  | 12/9/2010 -  |
| -       | 2012-0166274 A1    | 12/976,219        | US | UTL | TECHNIQUES   | 12/22/2010 - |
| -       | 2012-0158470 A1    | 12/971,748        | US | UTL | GENERAL TO SOCIAL ADVERTISEMENTS   | 12/17/2010 - |
| 1478081 | 201243748          | 101108252         | TW | UTL | System for Supply Forecasting  | 3/12/2012    |
| -       | 2012-0253916 A1    | 13/078,718        | US | UTL | Method and System for Delivering Ad-Initiated Emails to a User's Visual Email Inbox to Provide Access to Content | 3/21/2015    |
| -       | 2012/134760        | PCT/US2012/028245 | WO | UTL | Delivering Ad-Initiated Emails To A User's Visual Email Inbox To Provide Access To Content                       | 4/1/2011 -   |
| -       | 2012-0253855 A1    | 13/079,738        | US | UTL | Delivering Ad-Initiated Emails To A User's Visual Email Inbox To Provide Access To Content                       | 3/8/2012 -   |
| -       | 2012-0265615 A1    | 13/086,718        | US | UTL | Capturing a Future Location of an Online User  | 4/4/2011 -   |
| -       | 2012-0158505 A1    | 12/973,696        | US | UTL | CLICK TO CHAT IN ONLINE ADVERTISING  | 4/14/2011 -  |
| -       | 2013-0006759       | 13/174,992        | US | UTL | Blending Advertiser Data with Ad Network Data in Order to Serve Finely Targeted Ads                              | 12/20/2010 - |
| 8898133 | 2013-0159274 A1    | 13/332,340        | US | UTL | Monetizing User Generated Content With Embedded Advertisements   | 7/1/2011 -   |
| 8589804 | 2012-0272159       | 13/092,589        | US | UTL | User Behavior-Driven Background Cache Refreshing   | 12/20/2011   |
| -       | 2012-0197723 A1    | 13/016,885        | US | UTL | COLLABORATIVE ELECTRONIC BOOKS   | 11/25/2014   |
| 8356050 | -                  | 13/301,242        | US | UTL | USER-CUSTOMIZABLE SOCIAL GROUPING AND ADVERTISEMENT TARGETING  | 4/22/2011    |
| -       | -                  | -                 | US | UTL | TECHNIQUES   | 11/19/2013   |
| -       | -                  | -                 | US | UTL | Cross-Memory Spilling in Shared-Nothing Query Processing   | 1/28/2011 -  |
| -       | -                  | -                 | US | UTL | -  | 11/21/2011   |
| -       | -                  | -                 | US | UTL | -  | 1/15/2013    |

SCHEDULE OF ASSETS

|            |                    |                 |    |     |   |            |            |
|------------|--------------------|-----------------|----|-----|---|------------|------------|
| 8358843    | 2012-0195505       | 13/017,464      | US | UTL | TECHNIQUES INCLUDING URL RECOGNITION AND APPLICATIONS   | 1/31/2011  | 1/22/2013  |
| 9070038    | 2013-0108158 A1    | 13/718,640      | US | UTL | TECHNIQUES INCLUDING URL RECOGNITION AND APPLICATIONS   | 12/18/2012 | 6/30/2015  |
| -          | 2015-0254520 A1    | 14/720,254      | US | UTL | Techniques Including URL Recognition and Applications   | 5/22/2015  | -          |
| -          | 2013-0024269       | 13/185,969      | US | UTL | Evaluating Third Party Targeting Data   | 7/19/2011  | -          |
| 8918389    | US 2013-0018872 A1 | 13/182,439      | US | UTL | Dynamically Altered Search Assistance   | 7/13/2011  | 12/23/2014 |
| 8713028    | 2013-0132401 A1    | 13/298,932      | US | UTL | Related News Articles   | 11/17/2011 | 4/29/2014  |
| 8515964    | 2013-0031059 A1    | 13/189,696      | US | UTL | Method and System for Fast Similarity Computation in High Dimensional Space                   | 7/25/2011  | 8/20/2013  |
| -          | 2012-0265588 A1    | 13/085,390      | US | UTL | System and Method for Recommending New Connections in an Advertising Exchange                 | 4/12/2011  | -          |
| -          | 2012-0158487 A1    | 12/970,593      | US | UTL | SIMULATIONS IN INTEGRATED AND COMPREHENSIVE ADVERTISING CAMPAIGN                              | 12/16/2010 | -          |
| -          | -                  | 201280013336    | CN | UTL | MANAGEMENT AND OPTIMIZATION   | 2/23/2012  | -          |
| -          | -                  | 11851955        | EP | UTL | Search Assistant System and Method  | 12/21/2011 | -          |
| 10-1487639 | -                  | 10-2013-7019445 | KR | UTL | Signal-driven Interactive Television  | 12/21/2011 | 1/22/2015  |
| -          | -                  | 100147650       | TW | UTL | Signal-driven Interactive Television  | 12/21/2011 | -          |
| 9185458    | 2011-0247044       | 12/977,643      | US | UTL | Signal-driven Interactive Television  | 12/23/2010 | 11/10/2015 |
| -          | WO 2012/088332     | PCT/US11/66618  | WO | UTL | Signal-driven Interactive Television  | 12/21/2011 | -          |
| 8930338    | 2012-0296927       | 13/109,274      | US | UTL | System and Method for Contextualizing Query Instructions Using User's Recent Search History   | 5/17/2011  | 1/6/2015   |
| 8818787    | 2012-0197626       | 13/018,243      | US | UTL | Method and System for Predicting Performance of Software Applications on Prospective Hardware | 1/31/2011  | 8/26/2014  |
| 9208053    | 2014-0350912 A1    | 14/334,034      | US | UTL | Architecture  | 7/17/2014  | 12/8/2015  |
| -          | 2012-0295633       | 13/111,656      | US | UTL | Method and System For Predicting Performance of Software Applications on Prospective Hardware | 5/19/2011  | -          |
| -          | 2012-0284275       | 13/099,197      | US | UTL | Using User's Social Connection and Information in Web Searching                               | 5/2/2011   | -          |
| 8977640    | 2012-0221591 A1    | 13/036,591      | US | UTL | Utilizing Offline Clusters for Realtime Clustering of Search Results                          | 2/28/2011  | 3/10/2015  |
| 8983996    | 2013-0110863 A1    | 13/286,204      | US | UTL | System for Processing Complex Queries   | 10/31/2011 | 3/17/2015  |
| -          | 2012-0271714       | 13/093,498      | US | UTL | Assisted Searching  | 4/25/2011  | -          |
| -          | 2012-0284098       | 13/101,708      | US | UTL | RETARGETING RELATED TECHNIQUES AND OFFERINGS  | 5/5/2011   | -          |
| 9158851    | 2013-0159406 A1    | 13/332,338      | US | UTL | Processing Cross-Line Conversions   | 12/20/2011 | 10/13/2015 |
| -          | 2012-0271708 A1    | 13/091,784      | US | UTL | Location Aware Commenting Widget For Creation And Consumption Of Relevant Comments            | 4/21/2011  | -          |
| -          | -                  | -               | -  | -   | INTEGRATED AND COMPREHENSIVE ADVERTISING CAMPAIGN SELECTION AND IMPLEMENTATION                | -          | -          |

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SCHEDULE OF ASSETS

|         |                    |                  |    |     |   |              |            |
|---------|--------------------|------------------|----|-----|---|--------------|------------|
| -       | 2012-0239468 A1    | 13/051,185       | US | UTL | High-performance supply forecasting using override rules in display advertising systems                 | 3/18/2011 -  |            |
| -       | 2012-0271709       | 13/092,267       | US | UTL | INTEGRATED AND COMPREHENSIVE ADVERTISING CAMPAIGN VISUALIZATION   | 4/22/2011 -  |            |
| 8880423 | 2013-0006764       | 13/175,270       | US | UTL | Inventory Estimation for Search Retargeting   | 7/1/2011     | 11/4/2014  |
| 8914382 | 2013-0086078 A1    | 13/251,666       | US | UTL | System and Method for Generation of a Dynamic Social Page   | 10/3/2011    | 12/16/2014 |
| -       | 2012-0253951       | 13/074,096       | US | UTL | Scalable Inventory Protection And Optimization In Display Advertising                                   | 3/29/2011 -  |            |
| 8671022 | US 2012-0226561    | 13/039,256       | US | UTL | Aggregated Contextual Targeting Advertisements Using Instant Messaging Clients                          | 3/2/2011     | 3/11/2014  |
| 8601079 | 2013-0138744 A1    | 13/306,619       | US | UTL | Fast Maneuvering and high-speed Data attachments For Message Services                                   | 11/29/2011   | 12/3/2013  |
| 8832057 | 2013-0144870A1     | 13/310,658       | US | UTL | Results Returned For List-Seeking Queries Dynamically Updating Emoticon Pool Based on User Targeting    | 12/2/2011    | 9/9/2014   |
| -       | 2013-0103766 A-1   | 13/276,987       | US | UTL | NATURAL EXPERIMENTS IN ONLINE ADVERTISING   | 10/19/2011 - |            |
| -       | 2012-0278158 A1    | 13/096,867       | US | UTL | System For Managing Advertisements And Promotions   | 4/28/2011 -  |            |
| -       | 2012-0310745       | 13/149,453       | US | UTL | Content Provider Yield Management   | 5/31/2011 -  |            |
| -       | -                  | 11/684,492       | US | UTL | TARGETING CONTENT CREATION REQUESTS TO CONTENT CONTRIBUTORS   | 3/9/2007 -   |            |
| 8386308 | -                  | 12/723,602       | US | UTL | Generation of Content Creation Requests for a Content Distribution System                               | 3/12/2010    | 2/26/2013  |
| 8965965 | US 2011-0225239 A1 | 12/723,603       | US | UTL | System and Method for Analyzing Dynamic Performance of Complex Applications                             | 3/12/2010    | 2/24/2015  |
| 8856767 | US 2012-0278793 A1 | 13/097,446       | US | UTL | Image Object Retrieval  | 4/29/2011    | 10/7/2014  |
| -       | 2013-0148903 A1    | 13/315,210       | US | UTL | METHODS AND SYSTEMS FOR GROUP TARGETING FOR ADVERTISABLE CALENDAR ENTRIES                               | 12/8/2011 -  |            |
| -       | 2013-0006732       | 13/175,743       | US | UTL |   | 7/1/2011 -   |            |
| -       | 2013-0006777       | 13/175,185       | US | UTL | Determination and Monetization of Future Location Systems and Methods for Location Based Social Network | 7/1/2011 -   |            |
| -       | -                  | 101119522 TW     | TW | UTL | Systems and Methods for Location Based Social Network   | 5/31/2012 -  |            |
| -       | 2012-0324018 A1    | 13/162,339       | US | UTL | Systems and Methods for Location Based Social Network   | 6/16/2011 -  |            |
| -       | -                  | PCT/US2012/38335 | WO | UTL | Method and System for Personalized Search Suggestions   | 5/17/2012 -  |            |
| -       | 20120296743        | 13/111,058       | US | UTL | Identifying Users Likely to Perform for a Specific Advertiser's Campaign Goals                          | 5/19/2011 -  |            |
| -       | 2013-0091009 A1    | 13/270,845       | US | UTL | System And Method For Web Knowledge Extraction  | 10/11/2011 - |            |
| 8918357 | 20130031131        | 13/191,231       | US | UTL |   | 7/26/2011    | 12/23/2014 |

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SCHEDULE OF ASSETS

|         |                 |           |                   |     |  |              |            |
|---------|-----------------|-----------|-------------------|-----|--|--------------|------------|
| -       | 103765113 A     |           | 201280043187 CN   | UTL | Integrated Building Based Air Handler for Server Farm Cooling System   | 8/17/2012 -  |            |
| -       | -               | -         | 12760369 EP       | UTL | Search Assistant System and Method   | 2/23/2012 -  |            |
| -       | -               | 1190474   | 14103365 HK       | UTL | Search Assistant System and Method   | 2/23/2012 -  |            |
| 1479347 | -               | 201243632 | 101107281 TW      | UTL | Search Assistant System and Method   | 3/5/2012     | 4/1/2015   |
| -       | -               | -         | 103145663 TW      | UTL | Search Assistant System and Method   | 12/26/2014 - |            |
| -       | 2012-0246165 A1 | -         | 13/053,847        | UTL | Search Assistant System and Method   | 3/22/2011 -  |            |
| -       | 2012/128888     | -         | PCT/US2012/026300 | WO  | Search Assistant System and Method   | 2/23/2012 -  |            |
| -       | 2013-0191180 A1 | -         | 13/316,475        | US  | System for Collecting Customer Feedback in Real-Time   | 1/20/2012 -  |            |
| -       | 2013-0046613 A1 | -         | 13/213,530        | US  | Optimizing Targeting Effectiveness Based on Survey Responses   | 8/19/2011 -  |            |
| -       | 2013-0132959 A1 | -         | 13/304,024        | US  | A System for Generating or Using Quests  | 11/23/2011 - |            |
| 8954568 | 2013-0024496    | -         | 13/187,547        | US  | Method and System for Building an Elastic Cloud Web Server Farm  | 7/21/2011    | 2/10/2015  |
| -       | 2015-0127725 A1 | -         | 14/594,684        | US  | Method and System for Building an Elastic Cloud Web Server Farm  | 1/12/2015 -  |            |
| -       | -               | -         | 61/450,980        | US  | Yahoo! Flexible Tier Data Center   | 3/9/2011 -   |            |
| -       | 2013-0120929 A1 | -         | 13/415,804        | US  | Flexible Tier Data Center  | 3/8/2012 -   |            |
| 8832729 | 2013-0014182    | -         | 13/176,572        | US  | METHODS AND SYSTEMS FOR GRABBING VIDEO SURFERS' ATTENTION WHILE AWAITING DOWNLOAD  | 7/5/2011     | 9/9/2014   |
| -       | 2013-0197984    | -         | 13/360,931        | US  | Socially Shared Ads  | 1/30/2012 -  |            |
| 1466045 | 201305950       | 101123380 | TW                | UTL | Methods and systems for collaborative advertising  | 6/29/2012    | 12/21/2014 |
| -       | 2013-0013421-A1 | -         | 13/178,266        | US  | METHODS AND SYSTEMS FOR COLLABORATIVE ADVERTISING  | 7/7/2011 -   |            |
| -       | 2013/006274     | -         | PCT/US2012/043356 | WO  | METHODS AND SYSTEMS FOR COLLABORATIVE ADVERTISING  | 6/20/2012 -  |            |
| 8566156 | 2013-0013394    | -         | 13/176,057        | US  | Combining Segments Of Users Into Vertically Indexed Super-Segments   | 7/5/2011     | 10/22/2013 |
| -       | 2013-0339129 A1 | -         | 13/968,209        | US  | Combining Segments of Users Into Vertically Indexed Super-Segments   | 8/15/2013 -  |            |
| 8880099 | 2013-0095856-A1 | -         | 13/271,730        | US  | Method, Device, and Server for Transmitting and Responding to a Location Declaration   | 10/12/2011   | 11/4/2014  |
| 9214135 | 2013-0021375    | -         | 13/185,284        | US  | System for Monitoring a Video  | 7/18/2011    | 12/15/2015 |
| -       | -               | -         | 14/964,163        | US  | System for Monitoring a Video  | 12/9/2015 -  |            |
| 8666916 | 2013-0013535    | -         | 13/178,396        | US  | Method for Summarizing Event-Related Texts to Answer Search Queries  | 7/7/2011     | 3/4/2014   |
| 9020865 | 2014-0172820 A1 | -         | 14/186,826        | US  | Method for Summarizing Event-Related Texts to Answer Search Queries  | 2/21/2014    | 4/28/2015  |
| -       | 2013-0013416    | -         | 13/176,624        | US  | Displaying Advertisements Related to Brands  | 7/5/2011 -   |            |
| -       | 2013-0041757 A1 | -         | 13/206,302        | US  | Inferred from User Generated Content   | 8/9/2011 -   |            |
| 8825749 | 2013-0103740 A1 | -         | 13/278,999        | US  | Disaggregation to Isolate Users for Ad Targeting Method of Tracking Offline User Interaction in a Rendered Document on a Mobile Device | 10/21/2011   | 9/2/2014   |

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SCHEDULE OF ASSETS

|         |                 |                   |    |     |  |                        |
|---------|-----------------|-------------------|----|-----|--|------------------------|
| -       | 2013-0166360-A1 | 13/333,563        | US | UTL | User Centric Group Buying Deals<br>A METHOD, A SYSTEM AND A COMPUTER<br>READABLE MEDIA OF ADVERTISING<br>CAMPAIGNS UTILIZING STREAMING<br>CAMPAIGNS UTILIZING STREAMING<br>ANALYTICS | 12/21/2011 -           |
| 1485639 | 201319986       | 101129675         | TW | UTL | ADVERTISING CAMPAIGNS UTILIZING<br>STREAMING ANALYTICS<br>ADVERTISING CAMPAIGNS UTILIZING<br>STREAMING ANALYTICS   | 8/16/2012 - 5/21/2015  |
| -       | 2013-0110638 A1 | 13/283,091        | US | UTL | ADVERTISING CAMPAIGNS UTILIZING<br>STREAMING ANALYTICS   | 10/27/2011 -           |
| -       | -               | PCT/US2012/049957 | WO | UTL | STREAMING ANALYTICS  | 8/8/2012 -             |
| -       | -               | 101112422         | TW | UTL | SMS-Initiated Mobile Registration  | 4/9/2012 -             |
| -       | -               | 61/474,743        | US | PRV | SMS-Initiated Mobile Registration  | 4/12/2011 -            |
| 9210557 | 2012-0264427 A1 | 13/332,308        | US | UTL | SMS-Initiated Mobile Registration  | 12/20/2011 - 12/8/2015 |
| -       | 2012/142133     | PCT/US2012/33085  | WO | UTL | SMS-Initiated Mobile Registration  | 4/11/2012 -            |
| -       | 2013-0097016 A1 | 13/273,722        | US | UTL | METHODS AND SYSTEMS FOR TARGETING<br>USER INITIATED SOCIAL EVENTS  | 10/14/2011 -           |
| 8909633 | 2013-0006977    | 13/174,796        | US | UTL | Method and System for Improving Relevance of<br>Web Content  | 7/1/2011 - 12/9/2014   |
| -       | 2013-0144720-A1 | 13/311,851        | US | UTL | System For Advertisement Display   | 12/6/2011 -            |
| -       | 2013-0227440 A1 | 13/407,101        | US | UTL | METHOD AND SYSTEM FOR CREATING USER<br>EXPERIENCES BASED ON CONTENT INTENT   | 2/28/2012 -            |
| -       | 2013-0097139 A1 | 13/275,111        | US | UTL | Programmable Multi-Filtering   | 10/17/2011 -           |
| -       | -               | 61/554,923        | US | PRV | Online article syndication via content packages  | 11/2/2011 -            |
| -       | 2013-0110618 A1 | 13/333,875        | US | UTL | Online article syndication via content packages  | 12/21/2011 -           |
| -       | 2013-0151514-A1 | 13/316,413        | US | UTL | Extracting Tips  | 12/9/2011 -            |
| -       | 2013-0124343 A1 | 13/297,774        | US | UTL | Premium Instant Messaging Space  | 11/16/2011 -           |
| 1493488 | 201329892       | 101134640         | TW | UTL | Method and System for Selling Group Combo<br>Coupons   | 9/21/2012 - 7/21/2015  |
| -       | 2013-0097005 A1 | 13/271,935        | US | UTL | Online Techniques For Selling Group Combo<br>Coupons   | 10/12/2011 -           |
| -       | WO2013/055508   | PCT/US12/056322   | WO | UTL | Online Techniques For Selling Group Combo<br>Coupons   | 9/20/2012 -            |
| -       | 2013-0031013-A1 | 13/190,502        | US | UTL | METHOD AND SYSTEM FOR AUTOMATICALLY<br>IDENTIFYING OPTIMAL MEETING LOCATIONS   | 7/26/2011 -            |
| -       | 2014-0012854 A1 | 13/541,566        | US | UTL | Method or System for Semantic Categorization   | 7/3/2012 -             |
| 1493465 | 201312467       | 101124588         | TW | UTL | Method and System for Distributed Application<br>Stack Deployment  | 7/9/2012 - 7/21/2015   |
| 8756595 | 20130031542     | 13/192,575        | US | UTL | METHOD AND SYSTEM FOR DISTRIBUTED<br>APPLICATION STACK DEPLOYMENT  | 7/28/2011 - 6/17/2014  |
| -       | -               | US12/44754        | WO | UTL | APPLICATION STACK DEPLOYMENT   | 6/29/2012 -            |
| -       | 2013-0167139 A1 | 13/332,435        | US | UTL | Method And System For Distributed Application<br>Stack Test Certification  | 12/21/2011 -           |
| 9268589 | 20130152078     | 13/315,342        | US | UTL | Method and System for Deploying Multiple<br>Distributed Application Stacks on a Target<br>Machine  | 12/9/2011 - 2/23/2016  |
| -       | 2013-0018968 A1 | 13/183,260        | US | UTL | Automatic profiling of social media users  | 7/14/2011 -            |



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|              |                 |                   |    |     |   |              |            |
|--------------|-----------------|-------------------|----|-----|---|--------------|------------|
| 8571924      | 2013-0013392    | 13/176,668        | US | UTL | High Performance Personalized Advertisement Serving by Exploiting Thread Assignments in a Multiple Core Computing Environment | 7/5/2011     | 10/29/2013 |
| -            | 2014-0236749 A1 | 13/810,845        | US | UTL | Applying Customer Feedback to Group Buying Deals  | 1/17/2013 -  |            |
| -            | 2013/063720     | PCT/CN2011/001850 | WO | UTL | Applying Customer Feedbacks To Guarantee/Improve Quality Of Group Buying Deals  | 11/2/2011 -  |            |
| -            | -               | 60/285,949        | US | UTL | Electronic thumbprinting of digital music   | 4/24/2001 -  |            |
| 7421376      | -               | 10/132,091        | US | UTL | Comparison of data signals using characteristic electronic thumbprints  | 4/24/2002    | 9/2/2008   |
| 7853438      | -               | 12/183,824        | US | UTL | Comparison of data signals using characteristic electronic thumbprints extracted therefrom                                    | 7/31/2008    | 12/14/2010 |
| 8160840      | 2011-0071796    | 12/956,493        | US | UTL | Comparison Of Data Signals Using Characteristic Electronic Thumbprints Extracted Therefrom                                    | 11/30/2010   | 4/17/2012  |
| 8392148      | 2012-0191419    | 13/438,468        | US | UTL | Comparison Of Data Signals Using Characteristic Electronic Thumbprints Extracted Therefrom                                    | 4/3/2012     | 3/5/2013   |
| 8620626      | 2013-0018614    | 13/619,694        | US | UTL | Comparison Of Data Signals Using Characteristic Electronic Thumbprints Extracted Therefrom                                    | 9/14/2012    | 12/31/2013 |
| -            | 2014-0058706-A1 | 14/071,050        | US | UTL | COMPARISON OF DATA SIGNALS USING CHARACTERISTIC ELECTRONIC THUMBPRINTS EXTRACTED THEREFROM                                    | 11/4/2013 -  |            |
| 602006002007 | -               | 6254267           | DE | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 1760693      | -               | 6254267           | EP | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 2309924      | -               | 6254267           | ES | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 1760693      | -               | 6254267           | FR | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 1760693      | -               | 6254267           | GB | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 1760693      | -               | 6254267           | IT | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 8/15/2006    | 7/30/2008  |
| 7516074      | -               | 11/219,385        | US | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 9/1/2005     | 4/7/2009   |
| 8396705      | -               | 12/392,062        | US | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 2/24/2009    | 3/12/2013  |
| 9208790      | 2013-0197913-A1 | 13/793,952        | US | UTL | EXTRACTION AND MATCHING OF CHARACTERISTIC FINGERPRINTS FROM AUDIO SIGNALS   | 3/11/2013    | 12/8/2015  |
| -            | 103947214 A     | 201280057193      | CN | UTL | Context Relevant Interactive Television   | 11/28/2012 - |            |
| -            | 2441009         | 10786549          | EP | UTL | Media Identification System With Fingerprint Database Balanced According To Search Loads                                      | 5/11/2010 -  |            |

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|         |                    |                   |    |     |  |                       |
|---------|--------------------|-------------------|----|-----|--|-----------------------|
| -       | HK1167484          | 12107986          | HK | UTL | Media Identification System With Fingerprint Database Balanced According To Search Loads     | 5/11/2010 -           |
| -       | -                  | 10-2014-7025353   | KR | UTL | Media Identification System with Fingerprint Database Balanced According to Search Loads     | 5/11/2010 -           |
| 8713068 | 2010-0318587       | 12/483,222        | US | UTL | Media Identification System With Fingerprint Database Balanced According To Search Loads     | 6/11/2009 - 4/29/2014 |
| -       | 2014-0236952 A1    | 14/260,747        | US | UTL | Media Identification System with Fingerprint Database Balanced According to Search Loads     | 4/24/2014 -           |
| -       | 2010/144206        | PCT/US2010/034449 | WO | UTL | Media Identification System With Fingerprint Database Balanced According To Search Loads     | 5/11/2010 -           |
| -       | -                  | 8831110           | EP | UTL | Restoring Program information for Clips of Broadcast Programs Shared Online                  | 9/15/2008 -           |
| -       | -                  | 60/972,637        | US | UTL | Online Sharing Of User-Generated Content Obtained From Broadcast Programs                    | 9/14/2007 -           |
| 8295363 | -                  | 12/210,639        | US | UTL | Restoring Program information for Clips of Broadcast Programs Shared Online                  | 9/15/2008 10/23/2012  |
| 9036717 | 2012-0324506 A1    | 13/600,610        | US | UTL | Restoring Program information for Clips of Broadcast Programs Shared Online                  | 8/31/2012 5/19/2015   |
| -       | 2015-0248479 A1    | 14/714,864        | US | UTL | Restoring Program information for Clips of Broadcast Programs Shared Online                  | 5/18/2015 -           |
| -       | 2009/036435        | PCT/US2008/076415 | WO | UTL | Restoring Program information for Clips of Broadcast Programs Shared Online                  | 9/15/2008 -           |
| 8594392 | US 2011-0116719 A1 | 12/621,472        | US | UTL | Media Identification System For Efficient Matching Of Media Items Having Common Content      | 11/18/2009 11/26/2013 |
| 9110928 | 2014-0067863-A1    | 14/071,153        | US | UTL | Media Identification System for Efficient Matching of Media Items Having Common Content      | 11/4/2013 8/18/2015   |
| -       | -                  | 61/152,642        | US | UTL | Video Fingerprinting   | 2/13/2009 -           |
| 8934545 | 2010-0211794       | 12/706,658        | US | UTL | Extraction of Video Fingerprints and Identification of Multimedia Using Video Fingerprinting | 2/16/2010 1/13/2015   |
| -       | 2015-0125036 A1    | 14/594,278        | US | UTL | Extraction of Video Fingerprints and Identification of Multimedia Using Video Fingerprinting | 1/12/2015 -           |
| -       | 104145265 A        | 201280060719 CN   | CN | UTL | Systems and methods involving features of search and/or search integration                   | 12/17/2012 -          |
| -       | -                  | 12744318          | EP | UTL | Extraction and matching of characteristic fingerprints from audio signals                    | 1/13/2012 -           |
| -       | 1190473            | 14103364          | HK | UTL | Extraction and Matching of Characteristic Fingerprints From Audio Signals                    | 1/13/2012 -           |
| 1480855 | 201246183          | 101102127         | TW | UTL | Extraction And Matching Of Characteristic Fingerprints From Audio Signals                    | 1/19/2012 4/11/2015   |
| -       | -                  | 103129319         | TW | UTL | Extraction And Matching Of Characteristic Fingerprints From Audio Signals                    | 8/26/2014 -           |


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|         |                    |                   |    |     |  |              |            |
|---------|--------------------|-------------------|----|-----|--|--------------|------------|
| 9093120 | 2012-0209612       | 13/025,060        | US | UTL | Audio Fingerprint Extraction by Scaling in Time and Resampling   | 2/10/2011    | 7/28/2015  |
| -       | 2012/108975        | PCT/US2012/021303 | WO | UTL | Extraction And Matching Of Characteristic Fingerprints From Audio Signals  | 1/13/2012 -  |            |
| 8706757 | -                  | 11/868,981        | US | UTL | Device, Method and Computer Program Product for Generating Web Feeds   | 10/9/2007    | 4/22/2014  |
| -       | 2014-0181642-A1    | 14/191,113        | US | UTL | Device, Method and Computer Program Product for Generating Web Feeds   | 2/26/2014 -  |            |
| 8150878 | -                  | 11/940,387        | US | UTL | DEVICE METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING WEB FEEDS   | 11/15/2007   | 4/3/2012   |
| -       | US 2013-0166585 A1 | 13/335,692        | US | UTL | Method and System for Generating Query-Related Suggestions   | 12/22/2011 - |            |
| -       | 2013-0085868 A1    | 13/251,938        | US | UTL | System and Method for Generating an Effective Bid Per Impression Based on Multiple Attribution                           | 10/3/2011 -  |            |
| -       | 2013-0054342 A1    | 13/222,994        | US | UTL | Of Pay-Per-Conversion Advertising  | 8/31/2011 -  |            |
| 9043413 | 2013-0124646 A1    | 13/296,341        | US | UTL | Advertising Bonus System   | 11/15/2011   | 5/26/2015  |
| 9208470 | 2013-0086484 A1    | 13/252,799        | US | UTL | System and Method for Extracting, Collecting, Enriching and Ranking of Email Objects                                     | 10/4/2011    | 12/8/2015  |
| 8923621 | 2013-0259379-A1    | 13/434,738        | US | UTL | SYSTEM FOR CUSTOM USER-GENERATED ACHIEVEMENT BADGES BASED ON ACTIVITY FEEDS  | 10/4/2011    | 12/8/2015  |
| 8660975 | 2013-0151456-A1    | 13/313,775        | US | UTL | Finding Engaging Media with Initialized Explore-Exploit  | 3/29/2012    | 12/30/2014 |
| -       | 2012-0303454       | 13/117,011        | US | UTL | SYSTEM AND METHOD OF MATCHING CONTENT ITEMS AND CONSUMERS  | 12/7/2011    | 2/25/2014  |
| 8990177 | 2013-0110883A1     | 13/283,543        | US | UTL | METHODS AND SYSTEMS FOR TARGETING ADVERTISEMENTS ON LOGIN PAGES  | 5/26/2011 -  |            |
| -       | -                  | 14/662,504        | US | UTL | Lock-free Transactional Support for Large-scale Storage Systems  | 10/27/2011   | 3/24/2015  |
| -       | 2013-0091019-A1    | 13/253,650        | US | UTL | Lock-free Transactional Support for Large-scale Storage Systems  | 3/19/2015 -  |            |
| -       | 2013-0166394 A1    | 13/334,303        | US | UTL | System for Serving Advertisements  | 10/5/2011 -  |            |
| 8661136 | 20130097321        | 13/274,385        | US | UTL | Saliency-based evaluation of webpage designs and layouts   | 12/22/2011 - |            |
| -       | 201333856          | 101143394         | TW | UTL | Method and System for Work Load Balancing  | 10/17/2011   | 2/25/2014  |
| -       | 20130159088        | 13/332,056        | US | UTL | Method and System for Providing Offers That Specify A Variable Discount With Respect To A Price Of A Good And/Or Service | 11/21/2012 - |            |
| -       | 2013/095857        | PCT/US12/66117    | WO | UTL | Providing Offers That Specify A Variable Discount With Respect To A Price Of A Good And/Or Service                       | 12/20/2011 - |            |
| 8930839 | 2013-0132874 A1    | 13/301,792        | US | UTL | Providing Offers That Specify A Variable Discount With Respect To A Price Of A Good And/Or Service                       | 11/20/2012 - |            |
|         |                    |                   |    |     | Automatically Arranging of Icons On A User Interface   | 11/22/2011   | 1/6/2015   |

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SCHEDULE OF ASSETS

|         |   |                   |    |     |  |            |            |
|---------|---|-------------------|----|-----|--|------------|------------|
| 9135632 | 2013-0173384 A1   | 13/339,254        | US | UTL | Methods and Systems for Ad Placement Planning  | 12/28/2011 | 9/15/2015  |
| -       | 2015-0348086 A1   | 14/824,819        | US | UTL | Methods and Systems For Ad Placement Planning  | 8/12/2015  | -          |
| 8868558 | 2013-0159340  A1 | 13/330,087        | US | UTL | Quote-based search Method and System for Resolving Data Inconsistency                        | 12/19/2011 | 10/21/2014 |
| 8849776 | 20130097130   | 13/274,397        | US | UTL | Systems and Methods for Advertising and Monetization in Location Based Spatial Networks      | 10/17/2011 | 9/30/2014  |
| -       | -   | 101119526         | TW | UTL | Systems and Methods for Advertising and Monetization in Location Based Spatial Networks      | 5/31/2012  | -          |
| -       | 2012-0323689  | 13/162,390        | US | UTL | Systems and Methods for Advertising and Monetization in Location Based Spatial Networks      | 6/16/2011  | -          |
| -       | 2012/173730   | PCT/US2012/038121 | WO | UTL | Systems and Methods for Advertising and Monetization in Location Based Spatial Networks      | 5/16/2012  | -          |
| -       | 2014-0075293 A1   | 13/614,965        | US | UTL | Web Page Layout System and Method for Providing Content Via the Internet                     | 9/13/2012  | -          |
| -       | 2013-0159254 A1   | 13/325,121        | US | UTL | Generating A Deal Score To Indicate A Relative Value Of An Offer                             | 12/14/2011 | -          |
| -       | 2013-0268328 A1   | 13/442,602        | US | UTL | Live Advertisement Preview Display and Distribution  | 4/9/2012   | -          |
| -       | 2013-0124342 A1   | 13/294,748        | US | UTL | GENERATION OF USER PROFILES BASED ON FUTURE LOCATIONS  | 11/11/2011 | -          |
| -       | 2013-0103496 A1   | 13/276,328        | US | UTL | Ranked User Graph for Social Advertisement Targeting   | 10/19/2011 | -          |
| -       | 2013-0159096 A1   | 13/329,070        | US | UTL | Linking Newsworthy Events to Published Content   | 12/16/2011 | -          |
| 8880390 | 2013-0158981 A1   | 13/331,215        | US | UTL | Social Sharing and Influence Graph System And Method   | 12/20/2011 | 11/4/2014  |
| -       | -   | 101138595         | TW | UTL | Social Sharing and Influence Graph System And Method   | 10/19/2012 | -          |
| -       | 2013-0117364 A1   | 13/292,958        | US | UTL | Social Sharing and Influence Graph System And Method   | 11/9/2011  | -          |
| -       | 2013/070365   | PCT/US2012/59347  | WO | UTL | Social Sharing and Influence Graph System And Method   | 10/9/2012  | -          |
| -       | 2013-0110623 A1   | 13/282,180        | US | UTL | Aggregating Data From Multiple Devices Belonging To One User For Directed Ad Targeting       | 10/26/2011 | -          |
| -       | 2013-0124326 A1   | 13/296,236        | US | UTL | PROVIDING ADVERTISEMENTS IN AN AUGMENTED REALITY ENVIRONMENT                                 | 11/15/2011 | -          |
| -       | 2013-0132195 A1   | 13/302,608        | US | UTL | METHODS AND SYSTEMS FOR CREATING DYNAMIC USER SEGMENTS BASED ON SOCIAL GRAPHS                | 11/22/2011 | -          |
| -       | 2013-0097498 A1   | 13/271,655        | US | UTL | Embedding Non-Blocking Help Components in a Display Page Using Discovery Drawer Feature Cues | 10/12/2011 | -          |
| -       | 2013-0159272A1  | 13/327,734        | US | UTL | Understanding and Addressing Complex Information Needs                                       | 12/15/2011 | -          |
| -       | 2013-0117127 A1   | 13/290,915        | US | UTL | Contextual Ad Stories  | 11/7/2011  | -          |

SCHEDULE OF ASSETS

|         |                 |                   |    |     |   |              |
|---------|-----------------|-------------------|----|-----|---|--------------|
| -       | 2013-0275223 A1 | 13/449,128        | US | UTL | Future Ad Targeting   | 4/17/2012 -  |
| -       | -               | 101124586         | TW | UTL | Social Reputation Ads   | 7/9/2012 -   |
| -       | 2013-0151345 A1 | 13/315,026        | US | UTL | Social Reputation Ads   | 12/8/2011 -  |
| -       | 2013-0159094 A1 | 13/326,033        | US | UTL | Real Time Ad Targeting  | 12/14/2011 - |
| -       | 2013-0275218 A1 | 13/449,172        | US | UTL | Location-Based Wish List  | 4/17/2012 -  |
| -       | 2013-0085852 A1 | 13/252,558        | US | UTL | DEAL AND AD TARGETTING IN ASSOCIATION WITH EMAILS   | 10/4/2011 -  |
| -       | -               | 101126568         | TW | UTL | Methods and Systems for Facilitating Caching of Advertisements  | 7/24/2012 -  |
| -       | 2013-0110643 A1 | 13/284,129        | US | UTL | Methods and Systems for Facilitating Caching of Advertisements  | 10/28/2011 - |
| -       | 2013/095713     | PCT/US2012/045846 | WO | UTL | Methods and Systems for Facilitating Caching of Advertisements  | 7/6/2012 -   |
| -       | 2013-0283151 A1 | 13/451,813        | US | UTL | Dynamic Webpage Image   | 4/20/2012 -  |
| -       | -               | 15/077,441        | US | UTL | Dynamic Webpage Image   | 3/22/2016 -  |
| -       | 2013-0246560-A1 | 13/419,304        | US | UTL | Publish-Subscribe Platform for Cloud File Distribution  | 3/13/2012 -  |
| -       | 2014-0018136 A1 | 13/550,189        | US | UTL | Providing A Real-World Reward Based On Performance Of Action(S) Indicated By Virtual Card(S) In An Online Card Game | 7/16/2012 -  |
| -       | -               | 61/719,882        | US | UTL | Systems and Methods for Generating A Dense Graph  | 10/29/2012 - |
| -       | 2014-0118355 A1 | 14/065,108        | US | UTL | Systems and Methods for Generating A Dense Graph  | 10/28/2013 - |
| -       | 2013-0282808 A1 | 13/452,808        | US | UTL | System and Method for Generating Contextual User-Profile Images   | 4/20/2012 -  |
| -       | 2013-0198209 A1 | 13/363,813        | US | UTL | Mechanism and Instrumentation for Interest Discovery  | 2/1/2012 -   |
| -       | 2014-0244980 A1 | 13/775,678        | US | UTL | Method and System for Dynamic Control of a Multi-Tier Processing System   | 2/25/2013 -  |
| -       | 2013-0262243 A1 | 13/436,735        | US | UTL | Socialized Deals & Coupons  | 3/30/2012 -  |
| -       | 2013-0227164 A1 | 13/402,876        | US | UTL | METHOD AND SYSTEM FOR DISTRIBUTED LAYER SEVEN TRAFFIC SHAPING AND SCHEDULING  | 2/23/2012 -  |
| -       | 2013-0085857 A1 | 13/249,704        | US | UTL | Convenience-Related And Other Metrics In Advertising  | 9/30/2011 -  |
| 8768693 | 2013-0325462-A1 | 13/485,159        | US | UTL | Automatic Tag Extraction from Audio Annotated Photos  | 5/31/2012    |
| -       | 2014-0114769 A1 | 13/654,582        | US | UTL | Digital Memories for Advertising  | 10/18/2012 - |
| -       | 2013-0246191 A1 | 13/423,887        | US | UTL | BID AGENT POOL  | 3/19/2012 -  |
| -       | 2013-0311556 A1 | 13/475,905        | US | UTL | System and Method for Generating Theme Based Dynamic Groups   | 5/18/2012 -  |
| -       | 2013-0311258 A1 | 13/473,337        | US | UTL | Differential Deals in a Theme Group   | 5/16/2012 -  |
| -       | 2013-0159093 A1 | 13/331,262        | US | UTL | SYSTEMS AND METHODS FOR GENERATING REVENUE BASED ON CUSTOM CLICK TO CALL ADVERTISEMENTS                             | 12/20/2011 - |

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SCHEDULE OF ASSETS

|         |                         |                |    |     |   |              |           |
|---------|-------------------------|----------------|----|-----|---|--------------|-----------|
| -       | 2013-0290079 A1         | 13/458,686     | US | UTL | Systems and Methods for Insertion of Content into an Email over IMAP  | 4/27/2012 -  |           |
| 9052792 | 2013-0159074 A1         | 13/467,797     | US | UTL | Inserting a Search Box into a Mobile Terminal Dialog Messaging Protocol   | 5/9/2012     | 6/9/2015  |
| -       | 2013-0159433-A1         | 13/490,288     | US | UTL | Server-Side Modification of Messages during a Mobile Terminal Message Exchange                                      | 6/6/2012 -   |           |
| -       | 2015-0220994 A1         | 14/690,006     | US | UTL | Inserting a Search Box into a Mobile Terminal Dialog Messaging Protocol   | 4/17/2015 -  |           |
| -       | 2014-0006408 A1         | 13/539,144     | US | UTL | Identifying Points of Interest Via Social Media   | 6/29/2012 -  |           |
| -       | 2014-0122253 A1         | 13/664,041     | US | UTL | Systems and Methods for Implementing Bid Adjustments in an Online Advertisement Exchange                            | 10/30/2012 - |           |
| -       | 2014-0122221 A1         | 13/664,088     | US | UTL | Optimizing Bidding with Multiple Campaign Types   | 10/30/2012 - |           |
| -       | 2014-0006141 A1         | 13/539,271     | US | UTL | Methods Incorporating Pacing Constraints For Bidding Online Advertisement Display And Apparatus Conducting The Same | 6/29/2012 -  |           |
| -       | 2014-0006171 A1         | 13/539,266     | US | UTL | Method Of Offline Experimentation Environment And Apparatus Conducting The Same                                     | 6/29/2012 -  |           |
| -       | 2014-0006172 A1         | 13/539,270     | US | UTL | Method Of Calculating A Reserve Price For An Auction And Apparatus Conducting The Same                              | 6/29/2012 -  |           |
| -       | 2013-0275206 A1         | 13/444,268     | US | UTL | PER COLO DISTRIBUTION IN ONLINE ADVERTISING   | 4/11/2012 -  |           |
| -       | 2013-0325590 A1         | 13/485,532     | US | UTL | CENTRALIZED AND AGGREGATED TRACKING IN ONLINE ADVERTISING PERFORMANCE PREDICTION                                    | 5/31/2012 -  |           |
| -       | 2013-0254342 A1         | 13/430,044     | US | UTL | Method and System for Edge Server Cache   | 3/26/2012 -  |           |
| 8676814 | 2013-0218858 A1         | 13/398,678     | US | UTL | Automatic Face Annotation Of Images Contained In Media Content  | 2/16/2012    | 3/18/2014 |
| -       | 2013-0275611 A1         | 13/447,876     | US | UTL | Method And System Of Dynamic Routing Of Aggregated Online Media Streams   | 4/16/2012 -  |           |
| 8719285 | US-2013-0166578-A1      | 13/335,491     | US | UTL | System and Method for Automatic Presentation of Content-Related Data with Content Presentation                      | 12/22/2011   | 5/6/2014  |
| -       | 2013-0218676 A1         | 13/399,580     | US | UTL | Guaranteed Retargeting in Online Advertising  | 2/17/2012 -  |           |
| -       | 2013-0218686 A1         | 13/398,522     | US | UTL | Methods and Systems For Group Offers Within Group Chat  | 2/16/2012 -  |           |
| -       | -                       | 61/553,815     | US | PRV | Methods and Systems for Interactive Rendering of Multimedia Video in Response to Navigation Input                   | 10/31/2011 - |           |
| -       | 2013-0111313 A1         | 13/662,359     | US | UTL | Methods and Systems for Interactive Rendering of Multimedia Video in Response to Navigation Input                   | 10/26/2012 - |           |
| -       | -                       | 61/546,959     | US | UTL | Method and System for Customizing a Website   | 10/12/2012 - |           |
| -       | 9268859 2013-0097158 A1 | 13/647,581     | US | PRV | Method and System for Customizing a Website   | 10/13/2011 - |           |
| -       | -                       | PCT/US12/59637 | WO | UTL | Method and System for Customizing a Web Site  | 10/9/2012    | 2/23/2016 |
| -       | -                       |                | WO | UTL | Method and System for Customizing a Web Site  | 10/11/2012 - |           |

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SCHEDULE OF ASSETS

|         |                 |                  |    |     |  |           |            |
|---------|-----------------|------------------|----|-----|--|-----------|------------|
| 8965876 | 20130185277     | 13/353,061       | US | UTL | Ecosystem for manually marked searchable feeds on publisher sites  | 1/18/2012 | 2/24/2015  |
| -       | 2013-0211904 A1 | 13/371,113       | US | UTL | GUI That Displays Characteristics of an Advertising Audience Selected By Specifying Targeting Constraints    | 2/10/2012 | -          |
| 8869280 | 2013-0298238 A1 | 13/462,299       | US | UTL | Method And System For Automatic Detection Of Eavesdropping Of An Account Based On Identifiers And Conditions | 5/2/2012  | 10/21/2014 |
| -       | 2013-0297405-A1 | 13/462,976       | US | UTL | TIME SLICING IN ONLINE ADVERTISING EXPERIMENTATION   | 5/3/2012  | -          |
| -       | 2014-0058826 A1 | 13/595,303       | US | UTL | COMPOSITE PUBLISHER AUDIENCE PROFILES IN COMPREHENSIVE ADVERTISING   | 8/27/2012 | -          |
| -       | 2013-0246160 A1 | 13/421,506       | US | UTL | CAMPAIGN MANAGEMENT AND OPTIMIZATION SYSTEM AND METHOD FOR CONDUCTING RANDOMIZED TRIALS ON AD EXCHANGES      | 3/15/2012 | -          |
| -       | 2013-0325633 A1 | 13/485,115       | US | UTL | Charging for Advertisements Based on An Amount of Time a Page is in Focus                                    | 5/31/2012 | -          |
| -       | 2013-0290093 A1 | 13/458,343       | US | UTL | SYSTEM AND METHOD FOR ESTIMATING THE VALUE OF DISPLAY ADVERTISING  | 4/27/2012 | -          |
| -       | 2013-0268374 A1 | 13/441,672       | US | UTL | Learning Accounts  | 4/6/2012  | -          |
| -       | 2013-0326406 A1 | 13/486,874       | US | UTL | PERSONALIZED CONTENT FROM INDEXED ARCHIVES   | 6/1/2012  | -          |
| -       | 2013-0325869 A1 | 13/486,841       | US | UTL | CREATING A CONTEXT INDEX USING DATA ON USER ACTIONS  | 6/1/2012  | -          |
| -       | 2013-0290223 A1 | 13/458,545       | US | UTL | Method and System for Distributed Machine Learning   | 4/27/2012 | -          |
| -       | 2014-0201009 A1 | 13/739,129       | US | UTL | Dynamic Pricing for Guaranteed Online Display Advertising  | 1/11/2013 | -          |
| -       | 2014-0006144 A1 | 13/539,273       | US | UTL | Method Of Calculating A Reserve Price For An Auction And Apparatus Conducting The Same                       | 6/29/2012 | -          |
| 8447730 | -               | 13/363,148       | US | UTL | Probe System For Replication Monitoring  | 1/31/2012 | 5/21/2013  |
| 8886603 | 2013-0232114 A1 | 13/864,877       | US | UTL | Probe System For Replication Monitoring  | 4/17/2013 | 11/11/2014 |
| 1513235 | 201408007       | 102116026        | TW | UTL | Method and system for email sequence identification  | 5/6/2013  | 12/11/2015 |
| 8856249 | 2013-0318172-A1 | 13/479,790       | US | UTL | Method and System for Email Sequence Identification  | 5/24/2012 | 10/7/2014  |
| -       | -               | PCT/US2013/38578 | WO | UTL | METHOD AND SYSTEM FOR EMAIL SEQUENCE IDENTIFICATION  | 4/29/2013 | -          |
| -       | -               | 61/568,056       | US | PRV | System and Method for Developing Web Based Applications  | 12/7/2011 | -          |
| -       | 2013-0152066 A1 | 13/437,462       | US | UTL | Development and Hosting for Platform Independent Applications  | 4/2/2012  | -          |
| 9235398 | 20130152067     | 13/437,494       | US | UTL | Development of Platform Independent Applications   | 4/2/2012  | 1/12/2016  |

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|         |                    |                   |    |     |  |            |            |
|---------|--------------------|-------------------|----|-----|--|------------|------------|
| 9158520 | 2013-0152072 A1    | 13/550,914        | US | UTL | Development of Platform Independent Applications   | 7/17/2012  | 10/13/2015 |
| 9268546 | 2013-0263112 A1    | 13/729,162        | US | UTL | Deployment and Hosting of Platform Independent Applications                                    | 12/28/2012 | 2/23/2016  |
| -       | 20130151595        | 13/719,515        | US | UTL | Deployment and Hosting of Platform Independent Applications                                    | 12/19/2012 | -          |
| 9197720 | 2013-0151594 A1    | 13/719,437        | US | UTL | Applications   | 12/19/2012 | 11/24/2015 |
| -       | 2016-0011864 A1    | 14/821,849        | US | UTL | Development of Platform Independent Applications   | 8/10/2015  | -          |
| -       | WO2013/085674      | PCT/US12/064786   | WO | UTL | Development and Hosting for Platform Independent Applications                                  | 11/13/2012 | -          |
| -       | -                  | 2853813 CA        | CA | UTL | Context Relevant Interactive Television  | 11/28/2012 | -          |
| -       | 103605412 A        | 201310504508      | CN | UTL | Cold Row Encapsulation For Server Farm Cooling System  | 3/31/2010  | -          |
| -       | 2786585            | 12852496 EP       | EP | UTL | Context Relevant Interactive Television  | 11/28/2012 | -          |
| -       | 1197957            | 14111501 HK       | HK | UTL | Context Relevant Interactive Television  | 11/28/2012 | -          |
| -       | -                  | 61/564,291        | US | PRV | Context Relevant Interactive Television  | 11/28/2011 | -          |
| -       | 2013-0139209 A1    | 13/475,910        | US | UTL | Context Relevant Interactive Television  | 5/18/2012  | -          |
| -       | WO 2013/082199     | PCT/US12/66908    | WO | UTL | Context Relevant Interactive Television  | 11/28/2012 | -          |
| 8990341 | 2013-0227057 A1    | 13/408,510        | US | UTL | System For Tracking Diffusion  | 2/29/2012  | 3/24/2015  |
| 9100436 | 2015-0163193 A1    | 14/622,170        | US | UTL | System for Tracking Diffusion  | 2/13/2015  | 8/4/2015   |
| 9100286 | 2015-0156088 A1    | 14/622,204        | US | UTL | System for Tracking Diffusion  | 2/13/2015  | 8/4/2015   |
| -       | 2015-0295795 A1    | 14/750,621        | US | UTL | System for Tracking Diffusion  | 6/25/2015  | -          |
| -       | 2015-0100437 A1    | 13/814,714        | US | UTL | Techniques For Organizing And Presenting Deal Content  | 2/6/2013   | -          |
| -       | WO 2014/000131     | PCT/CN2012/000905 | WO | UTL | METHOD AND SYSTEM FOR ORGANIZING AND PRESENTING DEAL CONTENT                                   | 6/29/2012  | -          |
| -       | 2013-0246161 A1    | 13/423,025        | US | UTL | Systems and Methods for Optimization-Aware Delivery Pacing Adjustment in Advertisement Serving | 3/16/2012  | -          |
| -       | 2015-0100877 A1    | 13/695,774        | US | UTL | Method or System for Automated Extraction of Hyper-Local Events from One or More Web Pages     | 11/1/2012  | -          |
| -       | 2013-0311163 A1    | 13/473,034        | US | UTL | MEDIA RECOMMENDATION USING INTERNET MEDIA STREAM MODELING                                      | 5/16/2012  | -          |
| 8996305 | US 2013-0332068 A1 | 13/490,524        | US | UTL | System and method for discovering photograph hotspots  | 6/7/2012   | 3/31/2015  |
| -       | 2014-0074856 A1    | 13/606,598        | US | UTL | Social Content Suggestions Based on Connections  | 9/7/2012   | -          |
| 9111291 | 2013-0339137-A1    | 13/526,693        | US | UTL | System and method for providing sponsored applications in email                                | 6/19/2012  | 8/18/2015  |
| -       | 2013-0276041 A1    | 13/448,407        | US | UTL | METHOD AND SYSTEM FOR PROVIDING CONTEXTUAL INFORMATION DURING VIDEO BUFFERING                  | 4/17/2012  | -          |

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SCHEDULE OF ASSETS

|         |                 |                   |    |     |   |            |            |
|---------|-----------------|-------------------|----|-----|---|------------|------------|
| 8818715 | 2013-0261957 A1 | 13/434,074        | US | UTL | Systems And Methods To Suggest Travel Itineraries Based On Users' Current Location Systems And Methods To Suggest Travel Itineraries Based On Users' Current Location Method and System for Detecting Users' Emotions when Experiencing a Media Program Response Completion in Social Media | 3/29/2012  | 8/26/2014  |
| -       | -               | PCT/US2013/030429 | WO | UTL | RELATIVE EXPERTISE SCORES AND RECOMMENDATIONS   | 3/12/2013  | -          |
| 9251406 | 2013-0345840 A1 | 13/528,427        | US | UTL | Sponsored Applications  | 6/20/2012  | 2/2/2016   |
| -       | 2014-0019117 A1 | 13/547,930        | US | UTL | Sponsored Applications  | 7/12/2012  | -          |
| -       | 2013-0325779 A1 | 13/483,857        | US | UTL | PERSONALIZED REVIEWS TO A USER  | 5/30/2012  | -          |
| -       | 201411522       | 102119751         | TW | UTL | Snapshot Generation For Search Results Page Preview   | 6/4/2013   | -          |
| -       | 2013-0325594 A1 | 13/488,671        | US | UTL | Dynamic Network Task Distribution   | 6/5/2012   | -          |
| -       | WO 2013/184696  | PCT/US2013/044135 | WO | UTL | Snapshot Refreshment for Search Results Page Preview  | 6/4/2013   | -          |
| -       | 2013-0311395 A1 | 13/473,607        | US | UTL | METHODS AND SYSTEMS FOR PROVIDING OFFERS BASED ON CONSUMERS' PRICE DISCRIMINATION   | 5/17/2012  | -          |
| 9218419 | 2013-0283140 A1 | 13/452,985        | US | UTL | Multimedia Features For Click Prediction Of New Advertisements  | 4/23/2012  | 12/22/2015 |
| -       | 2013-0283097 A1 | 13/452,998        | US | UTL | System and Method for Identifying Abusive Account Registration  | 4/23/2012  | -          |
| -       | 2013-0283137 A1 | 13/453,007        | US | UTL | System and method for identifying abusive account registration  | 4/23/2012  | -          |
| -       | 2013-0332301 A1 | 13/490,178        | US | UTL | Automatic Updating of Trust Networks in Recommender System  | 6/6/2012   | -          |
| -       | 2013-0346182 A1 | 13/528,484        | US | UTL | Systems And Methods For Micro-Payments And Donations  | 6/20/2012  | -          |
| 8862524 | 2014-0040170-A1 | 13/564,378        | US | UTL | Method and System for Search Suggestion   | 8/1/2012   | 10/14/2014 |
| -       | 2014-0344929 A1 | 14/450,974        | US | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 8/4/2014   | -          |
| -       | 2013-0097184 A1 | 13/709,764        | US | UTL | Method and System for Identifying Abusive Account Registration  | 12/10/2012 | -          |
| -       | 2013-0253994 A1 | 13/448,883        | US | UTL | System and Method for Identifying Abusive Account Registration  | 4/17/2012  | -          |
| -       | 2013-0282682 A1 | 13/449,563        | US | UTL | System and Method for Identifying Abusive Account Registration  | 4/18/2012  | -          |
| -       | 2013-0283203 A1 | 13/454,185        | US | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 4/24/2012  | -          |
| 8667133 | 2014-0040455-A1 | 13/565,531        | US | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 8/2/2012   | 3/4/2014   |
| -       | 2013-0339354 A1 | 13/517,603        | US | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 6/14/2012  | -          |
| -       | 201401090       | 102113737         | TW | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 4/18/2013  | -          |
| -       | 2013-0290502 A1 | 13/460,684        | US | UTL | Method and System for Displaying Search Results METHODS AND SYSTEMS FOR DETERMINING THE EFFECT OF A HOST ON NETWORK LATENCY WHILE DELIVERING ONLINE ADS   | 4/30/2012  | -          |

SCHEDULE OF ASSETS

|         |                  |                  |    |     |  |                        |
|---------|------------------|------------------|----|-----|--|------------------------|
| -       | 2013/165664      | PCT/US2013/35941 | WO | UTL | CONTINUOUS CONTENT IDENTIFICATION OF BROADCAST CONTENT   | 4/10/2013 -            |
| 9177066 | 2013-0339342 A1  | 13/517,606       | US | UTL | Method and System for Displaying Comments Associated With A Query  | 6/14/2012 - 11/3/2015  |
| -       | 2013-0282709 A1  | 13/449,748       | US | UTL | METHOD AND SYSTEM FOR QUERY SUGGESTION   | 4/18/2012 -            |
| -       | 2014-0032305 A1  | 13/561,848       | US | UTL | Inventory Contribution Rules For Inventory Management  | 7/30/2012 -            |
| 9100362 | 2014-0012906 A1  | 13/543,119       | US | UTL | Peer-to-peer architecture for Web Traffic Management   | 7/6/2012 - 8/4/2015    |
| -       | -                | 14/816,965       | US | UTL | Peer-to-peer architecture for Web Traffic Management   | 8/3/2015 -             |
| -       | 2014-0025506 A1  | 13/555,625       | US | UTL | METHODS AND SYSTEMS FOR PROVIDING ADDITIONAL ADVERTISING INFORMATION TO A USER                             | 7/23/2012 -            |
| -       | 2014-0006349 A1  | 13/536,551       | US | UTL | Index Replication In Distributed Search Engines  | 6/28/2012 -            |
| -       | 2013-0282749 A1  | 13/453,018       | US | UTL | Instant Search Results With Page Previews  | 4/23/2012 -            |
| 8996530 | 2013-0290339 A1  | 13/458,750       | US | UTL | User Modeling For Personalized Generalized Content Recommendations   | 4/27/2012 - 3/31/2015  |
| -       | 2013-0290905 A1  | 13/459,009       | US | UTL | Avatars For Use With Personalized Generalized Content Recommendations                                      | 4/27/2012 -            |
| -       | 2013-0346192 A1  | 13/527,606       | US | UTL | METHOD AND SYSTEM FOR DISPLAYING A THEME BASED ADVERTISEMENT ON A SEARCH BOX                               | 6/20/2012 -            |
| -       | 2013-0325838 A1  | 13/488,513       | US | UTL | Method and System for Presenting Query Results   | 6/5/2012 -             |
| -       | 2014-0052507 A1  | 13/588,813       | US | UTL | METHODS AND SYSTEMS FOR TARGETTING MOBILE DEVICES DURING CHARGING  | 8/17/2012 -            |
| 9117250 | 2014-0067817 A1  | 13/599,590       | US | UTL | RECOMMENDING SOCIAL NETWORK CONNECTIONS  | 8/30/2012 - 8/25/2015  |
| 9015502 | 2014-0019779- A1 | 13/548,398       | US | UTL | A system and method for automatically determining an optimal power cap value                               | 7/13/2012 - 4/21/2015  |
| -       | 2014-0136596 A1  | 13/673,720       | US | UTL | Method and System for Capturing Audio of a Video to Display Supplemental Content Associated with the Video | 11/9/2012 -            |
| -       | 2014-0025490 A1  | 13/550,703       | US | UTL | Automated Recommendations Based On Historic Location-Preference Information                                | 7/17/2012 -            |
| -       | -                | 14/755,037       | US | UTL | Automated Recommendations Based On Historic Location-Preference Information                                | 6/30/2015 -            |
| 9147000 | 2014-0006399 A1  | 13/537,423       | US | UTL | Method and System for Recommending Websites  | 6/29/2012 - 9/29/2015  |
| -       | 2014-0026066 A1  | 13/555,723       | US | UTL | User Interaction-Based Website Optimization  | 7/23/2012 -            |
| 9223861 | 2013-0304741 A1  | 13/468,320       | US | UTL | Method and System for Automatic Assignment of Identifiers to a Graph of Entities                           | 5/10/2012 - 12/29/2015 |

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|         |                 |            |    |     |  |            |            |
|---------|-----------------|------------|----|-----|--|------------|------------|
| 9031943 | 2013-0301874 A1 | 13/470,397 | US | UTL | Method and System for Realtime De-Duplication of Objects in an Entity-Relationship Graph | 5/14/2012  | 5/12/2015  |
| -       | -               | 102128605  | TW | UTL | Multiscreen Adaptive Rich Media Advertisements   | 8/9/2013   | -          |
| -       | 2014-0052546 A1 | 13/585,374 | US | UTL | Multiscreen Adaptive Rich Media Advertisements   | 8/14/2012  | -          |
| -       | 2014-0114770 A1 | 13/655,244 | US | UTL | Online Techniques For Providing Offers Based On Social Activity                          | 10/18/2012 | -          |
| -       | 2014-0025493 A1 | 13/555,018 | US | UTL | Custom retargeting description language  | 7/20/2012  | -          |
| -       | 2014-0123001 A1 | 13/664,719 | US | UTL | User Displays Using N-way Paginated Merge of Information from Diverse Sources            | 10/31/2012 | -          |
| -       | 2014-0013250 A1 | 13/543,888 | US | UTL | METHOD AND SYSTEM FOR VISUALIZING PATTERNS DURING INTERNET BROWSING                      | 7/8/2012   | -          |
| -       | 2014-0149465 A1 | 13/685,366 | US | UTL | Feature Rich View of an Entity Subgraph  | 11/26/2012 | -          |
| -       | 2014-0181104 A1 | 13/725,729 | US | UTL | Identify Workflow That Utilizes Multiple Storage Engines to Support Various Lifecycles   | 12/21/2012 | -          |
| -       | 2014-0067996 A1 | 13/598,869 | US | UTL | Method and System for Reducing Network Latency   | 8/30/2012  | -          |
| -       | 2014-0189525 A1 | 13/730,305 | US | UTL | User Behavior Models Based On Source Domain  | 12/28/2012 | -          |
| -       | 2014-0282393 A1 | 13/842,826 | US | UTL | Jabba language   | 3/15/2013  | -          |
| -       | 2014-0279804 A1 | 13/843,666 | US | UTL | Jabba-Type Contextual Tagger   | 3/15/2013  | -          |
| 9262555 | 2014-0280358 A1 | 13/843,292 | US | UTL | Machine for Recognizing or Generating Jabba-Type Sequences                               | 3/15/2013  | 2/16/2016  |
| -       | 2014-0108144 A1 | 13/653,203 | US | UTL | Methods and systems for using voice input in display advertisements                      | 10/16/2012 | -          |
| 9195940 | 2014-0279743 A1 | 13/844,013 | US | UTL | Jabba-Type Override for Correcting or Improving Output of a Model                        | 3/15/2013  | 11/24/2015 |
| 9268809 | 2014-0358847 A1 | 13/904,140 | US | UTL | Method and System for Document Update  | 5/29/2013  | 2/23/2016  |
| -       | 2014-0115282 A1 | 13/656,510 | US | UTL | Writing Data From Hadoop to Off Grid Storage   | 10/19/2012 | -          |
| -       | 2014-0122055 A1 | 13/664,561 | US | UTL | Method and System for Improved Language Identification Using Language Tags               | 10/31/2012 | -          |
| 9135589 | 2014-0129964 A1 | 13/669,899 | US | UTL | Navigation Bridge  | 11/6/2012  | 9/15/2015  |
| -       | -               | 14/811,250 | US | UTL | Navigation Bridge  | 7/28/2015  | -          |
| -       | 2014-0149868 A1 | 13/686,926 | US | UTL | Method and system for providing audio assistance for non-visual navigation of data       | 11/28/2012 | -          |
| 9235890 | 2014-0270522 A1 | 13/844,760 | US | UTL | Identifying Regions Characterized By Labeled Measurements                                | 3/15/2013  | 1/12/2016  |
| -       | -               | 14/954,541 | US | UTL | Identifying Regions Characterized By Labeled Measurements                                | 11/30/2015 | -          |
| -       | 2014-0164101 A1 | 13/709,616 | US | UTL | Systems and Methods For Personalized Offline Mobile Advertising                          | 12/10/2012 | -          |
| 9104497 | 2014-0129715 A1 | 13/671,046 | US | UTL | Method and System for Work Load Balancing Customized Shortcuts for Resource Browsing     | 11/7/2012  | 8/11/2015  |
| -       | 2014-0115539 A1 | 13/654,812 | US | UTL | Method and Apparatus   | 10/18/2012 | -          |
| -       | 2014-0149380 A1 | 13/685,468 | US | UTL | Methods and Apparatuses for Document Processing at Distributed Processing Nodes          | 11/26/2012 | -          |
| -       | -               | 13/945,732 | US | UTL | Real Time Advertising Campaigns Utilizing Streaming Analytics Engines                    | 7/18/2013  | -          |

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|         |                 |                   |    |     |  |                      |
|---------|-----------------|-------------------|----|-----|--|----------------------|
| -       | 2014-0122225 A1 | 13/663,192        | US | UTL | Advertiser Driven Engagement for Product Searches  | 10/29/2012 -         |
| -       | 104704446 A     | 2013800651478     | CN | UTL | Multimode Distribution Systems and Methods for Providing Power from Power Sources to Power Consuming Devices | 5/30/2013 -          |
| -       | -               | 13845418          | EP | UTL | Multimode Distribution Systems and Methods for Providing Power from Power Sources to Power Consuming Devices | 5/30/2013 -          |
| -       | -               | 15110537          | HK | UTL | Multimode Distribution Systems and Methods for Providing Power from Power Sources to Power Consuming Devices | 5/30/2013 -          |
| -       | -               | 102121058         | TW | UTL | Multimode Distribution Systems and Methods for Providing Power from Power Sources to Power Consuming Devices | 6/14/2013 -          |
| 9136707 | 2014-0097684 A1 | 13/648,179        | US | UTL | Multimode Distribution Systems and Methods for Providing Power From Power Sources to Power Consuming Devices | 10/9/2012 9/15/2015  |
| -       | -               | 14/839,819        | US | UTL | Multimode Distribution Systems and Methods for Providing Power from Power Sources to Power Consuming Devices | 8/28/2015 -          |
| -       | -               | PCT/US13/43479    | WO | UTL | Methods and Systems for Targeting Users with Audio Advertisements  | 5/30/2013 -          |
| -       | 2014-0164139-A1 | 13/712,458        | US | UTL | Identifying Time-Sensitive Ambiguous Queries   | 12/12/2012 -         |
| -       | 2014-0250116 A1 | 13/782,653        | US | UTL | Method and System for Providing Tokenless Secure Login by Visual Cryptography                                | 3/1/2013 -           |
| -       | 2014-0136836 A1 | 13/677,309        | US | UTL | Virtual Wall for Writings Associated With Landmarks  | 11/15/2012 -         |
| -       | 2014-0156787 A1 | 13/705,786        | US | UTL | Method and System for Remote Altering Static Video Content in Real Time                                      | 12/5/2012 -          |
| -       | 2014-0129729 A1 | 13/669,444        | US | UTL | Capturing Value Of A Unit Of Content   | 11/6/2012 -          |
| -       | 2014-0129364 A1 | 13/672,444        | US | UTL | Visible Personalization  | 11/8/2012 -          |
| 8903778 | 2014-0108425 A1 | 13/653,582        | US | UTL | Method and System for Maintaining Data in a Data Storage System  | 10/17/2012 12/2/2014 |
| -       | 2014-0114993 A1 | 13/657,143        | US | UTL | Display of Location-Related Promotional Message with Search Query Results                                    | 10/22/2012 -         |
| -       | 2014-0108447 A1 | 13/651,262        | US | UTL | Finger expression for touch screens  | 10/12/2012 -         |
| -       | 20140247237A1   | 13/782,273        | US | UTL | Finger expressions for touch screens   | 2/22/2013 -          |
| -       | 2014/127493     | PCT/CN2013/000177 | WO | UTL | Finger expression for touch screens  | 3/1/2013 -           |
| -       | 2014-0032537 A1 | 13/562,311        | US | UTL | Apparatus, System, and Method for Music Identification   | 2/22/2013 -          |
| -       | 2014-0172583 A1 | 13/713,617        | US | UTL | Methods and Systems for Displaying Sponsored Content from Third Party Networks                               | 7/30/2012 -          |
| -       | 2014-0180836 A1 | 13/724,793        | US | UTL | CONTEXTUAL CONTENT TARGETING   | 12/13/2012 -         |

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|         |                 |                   |    |     |  |              |           |
|---------|-----------------|-------------------|----|-----|--|--------------|-----------|
| 8880518 | 2014-0122469 A1 | 13/662,159        | US | UTL | Ranking Products Using Purchase Day Based Time Windows   | 10/26/2012   | 11/4/2014 |
| -       | 2014-0278929 A1 | 13/834,939        | US | UTL | System and Method Identifying Opportunities for Advertising Entities Based on User Goal Achievement  | 3/15/2013 -  |           |
| -       | 2014-0164094-A1 | 13/707,129        | US | UTL | Precise Targeted Promotional Offers  | 12/6/2012 -  |           |
| -       | 2014-0122194 A1 | 13/666,466        | US | UTL | Cross-Platform Targeting   | 11/1/2012 -  |           |
| 9087070 | 2014-0214779 A1 | 13/755,692        | US | UTL | System and Method for Applying an Efficient Data Compression Scheme to URL Parameters  | 1/31/2013    | 7/21/2015 |
| -       | 2015-0324385 A1 | 14/795,408        | US | UTL | System And Method For Applying An Efficient Data Compression Scheme To URL Parameters  | 7/9/2015 -   |           |
| -       | 2014-0180831 A1 | 13/727,210        | US | UTL | System for Determining Fees for Online Ad Impact Systems and Methods Relating to Ad/Content Targeting for Map Route Options Based on Personalization and User Data | 12/26/2012 - |           |
| -       | 2014-0195154 A1 | 13/736,625        | US | UTL | Systems and Methods Relating To Design of Mobile Applications for Display Ads on a Larger Screen Space   | 1/8/2013 -   |           |
| -       | 2014-0192088 A1 | 13/735,680        | US | UTL | Mobile Applications for Display Ads on a Larger Screen Space   | 1/7/2013 -   |           |
| -       | -               | 2014233427 AU     | AU | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | BR1120150022332-0 | BR | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | 2903148 CA        | CA | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | -                 | CH | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | 104281961 A     | 201410289005 CN   | CN | UTL | Quality Scoring System For Advertisements and Content In An Online System  | 6/24/2014 -  |           |
| -       | -               | -                 | DE | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | 2974575         | 14764272 EP       | EP | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | -                 | FR | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | -               | -                 | GB | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | -               | -                 | HK | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | -               | -                 | IE | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | -               | 241389 IL         | IL | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | 5178/CHENP/2015   | IN | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | 2016-503194       | JP | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | 10-2015-7027177   | KR | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | PI 2015002228     | MY | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | -                 | NL | UTL | Atmospheric Cooling of Servers in a Data Center  | -            |           |
| -       | -               | 2015139062 RU     | RU | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | 11201507314P      | SG | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/14/2014 -  |           |
| -       | -               | -                 | TW | UTL | Atmospheric Cooling Of Servers In A Data Center  | 3/14/2014 -  |           |
| -       | -               | 103109374         | TW | UTL | Atmospheric Cooling Of Servers In A Data Center  | 3/14/2014 -  |           |
| -       | -               | 61/800,707        | US | PRV | Atmospheric Cooling of Servers in a Data Center  | 3/15/2013 -  |           |
| -       | 2014-0259966 A1 | 14/210,171        | US | UTL | Atmospheric Cooling of Servers in a Data Center  | 3/13/2014 -  |           |
| -       | 2014/145041     | PCT/US2014/029684 | WO | UTL | Atmospheric Cooling of Servers in a Data Center Enhanced Shared Screen Experiences for Concurrent Users  | 3/14/2014 -  |           |
| -       | 2014-0229289 A1 | 13/766,553        | US | UTL | Concurrent Users   | 2/13/2013 -  |           |

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|   |                 |                  |    |     |  |              |
|---|-----------------|------------------|----|-----|--|--------------|
| - | 2014-0372210    | 13/920,821       | US | UTL | METHOD AND SYSTEM FOR SERVING ADVERTISEMENTS RELATED TO SEGMENTS OF A MEDIA PROGRAM      | 6/18/2013 -  |
| - | 2015-0039360 A1 | 13/956,178       | US | UTL | Dependency Management for Enterprise Computing   | 7/31/2013 -  |
| - | 2014-0258890 A1 | 13/791,401       | US | UTL | Systems and Methods For Altering User Interaction with Content Based on User Interest    | 3/8/2013 -   |
| - | 201423640       | 102132539        | TW | UTL | Interactive Reveal Ad Unit   | 9/10/2013 -  |
| - | 61/707,812      |                  | US | PRV | Interactive Reveal Ad Unit   | 9/28/2012 -  |
| - | 2014-0095328 A1 | 13/792,569       | US | UTL | Interactive Reveal Ad Unit   | 3/11/2013 -  |
| - | 2014-0095329 A1 | 13/830,551       | US | UTL | Open Canvas Advertising Unit   | 3/14/2013 -  |
| - |                 | PCT/US2013/57971 | WO | UTL | Interactive Reveal Ad Unit   | 9/4/2013 -   |
| - | -               | 1044/CHE/2013    | IN | UTL | Method and System for Event State Management in Stream Processing                        | 3/12/2013 -  |
| - | 2014-0280766 A1 | 13/921,662       | US | UTL | Method and System for Event State Management in Stream Processing                        | 6/19/2013 -  |
| - | 2015-0172369 A1 | 14/109,169       | US | UTL | Method and System for Iterative Pipeline   | 12/17/2013 - |
| - | 2015-0195344 A1 | 14/151,277       | US | UTL | Method and System for a Scheduled Map Executor   | 1/9/2014 -   |
| - | 2014-0259045 A1 | 14/095,747       | US | UTL | Video Advertisement Wall   | 12/3/2013 -  |
| - | 2014-0250457 A1 | 13/782,786       | US | UTL | Video analysis system  | 3/1/2013 -   |
| - | -               | 13/898,789       | US | UTL | Dynamic Modification of A Parameter of An Image Based on User Interest                   | 5/21/2013 -  |
| - | 2014-0272849 A1 | 13/835,689       | US | UTL | System and Method Providing Positive Social and Economic Motivators for Goal Achievement | 3/15/2013 -  |
| - | -               | 14/368,890       | US | UTL | Method and System for Dynamic Content Pre-Caching  | 6/26/2014 -  |
| - | 2014/194441     | PCT/CN2013/00676 | WO | UTL | Method and System for Dynamic Content Pre-Caching  | 6/6/2013 -   |
| - | 2015-0331575 A1 | 14/343,966       | US | UTL | Method and System for Intent Centric Multi-Facet Content Presentation                    | 3/10/2014 -  |
| - | 2014/139053     | PCT/CN2013/00298 | WO | UTL | METHOD AND SYSTEM FOR INTENT CENTRIC MULTI-FACET CONTENT PRESENTATION                    | 3/15/2013 -  |
| - | 2015-0319224 A1 | 14/344,185       | US | UTL | Method and System for Presenting Personalized Content                                    | 3/11/2014 -  |
| - | 2014/139058     | PCT/CN2013/00303 | WO | UTL | Method and System for Presenting Personalized Content                                    | 3/15/2013 -  |
| - | 2015-0269613 A1 | 14/344,145       | US | UTL | Network-Adaptive Ad Modality Selection   | 3/11/2014 -  |
| - | 2014/139052     | PCT/CN2013/00297 | WO | UTL | NETWORK-ADAPTIVE AD MODALITY SELECTION   | 3/15/2013 -  |
| - | 2015-0213515 A1 | 14/367,128       | US | UTL | Method and System for Online Content Match Advertising                                   | 6/19/2014 -  |
| - | 2014/201582     | PCT/CN2013/00708 | WO | UTL | Method and System for Online Content Match Advertising                                   | 6/17/2013 -  |
| - | 2015-0302088 A1 | 14/344,100       | US | UTL | Method and System for Providing Personalized Content                                     | 3/11/2014 -  |

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|         |                 |                   |    |     |   |                        |
|---------|-----------------|-------------------|----|-----|---|------------------------|
| -       | 2014/139057     | PCT/CN2013/00302  | WO | UTL | METHOD AND SYSTEM FOR PROVIDING PERSONALIZED CONTENT  | 3/15/2013 -            |
| -       | 2014-0282522 A1 | 13/844,711        | US | UTL | Activity Initiated Virtual Machine Migration  | 3/15/2013 -            |
| -       | 2014-0304067 A1 | 13/859,408        | US | UTL | AUCTION-BASED ONLINE ADVERTISING  | 4/9/2013 -             |
| -       | 2014-0337356 A1 | 13/889,866        | US | UTL | Identifying Communities Within A Social Network Based on Information Propagation Data                         | 5/8/2013 -             |
| 9047147 | 2014-0373030-A1 | 13/920,174        | US | UTL | Method and System for Recording and Replaying User Sessions in Browser Based Applications                     | 6/18/2013 - 6/2/2015   |
| -       | 2014-0279036 A1 | 13/796,217        | US | UTL | AD Targeting System   | 3/12/2013 -            |
| -       | 2014-0359479 A1 | 13/903,669        | US | UTL | SYSTEMS AND METHODS FOR AUTO-ADJUST POSITIONING OF PREFERRED CONTENT FOR INCREASED CLICK AND CONVERSION RATES | 5/28/2013 -            |
| 9189805 | 2014-0372229 A1 | 13/920,212        | US | UTL | Method And System For Automatically Pausing Advertisements Based on User Attention                            | 6/18/2013 - 11/17/2015 |
| -       | -               | 14/942,608        | US | UTL | Method and System for Automatically Pausing Advertisements Based on User Attention                            | 11/16/2015 -           |
| -       | 2014-0358720 A1 | 13/906,589        | US | UTL | Method and Apparatus to Build Flowcharts for E-Shopping Recommendations                                       | 5/31/2013 -            |
| -       | -               | 13/891,854        | US | UTL | METHOD AND SYSTEM FOR DISPLAYING CONTENT RELATING TO A SUBJECT MATTER   | 5/10/2013 -            |
| 8965909 | 2014-0181084 A1 | 13/726,449        | US | UTL | OF A DISPLAYED MEDIA PROGRAM  | 12/24/2012 - 2/24/2015 |
| -       | 2014-0279186 A1 | 13/799,462        | US | UTL | Type-Ahead Search Optimization  | 3/13/2013 -            |
| -       | 2014-0316884 A1 | 13/867,827        | US | UTL | Digital Wardrobe with Recommender System  | 4/22/2013 -            |
| -       | 2014-0297401 A1 | 13/851,753        | US | UTL | Interactive Advertising System  | 3/27/2013 -            |
| -       | 2014-0282137 A1 | 13/796,757        | US | UTL | SHAPING ALLOCATIONS IN SEARCH ADVERTISING AUCTIONS  | 3/12/2013 -            |
| -       | 2015-0088990 A1 | 14/038,727        | US | UTL | Automatically Fitting a Wearable Object   | 9/26/2013 -            |
| -       | -               | 103114938         | TW | UTL | Cache Refreshing for Online Social Newsfeeds  | 4/25/2014 -            |
| -       | -               | 13/872,754        | US | UTL | Systems and Methods for Instant E-Coupon Distribution   | 4/29/2013 -            |
| -       | 2014/179082     | PCT/US2014/34466  | WO | UTL | Systems And Methods For Instant E-Coupon Distribution   | 4/17/2014 -            |
| 9161188 | 2015-0058720 A1 | 13/973,175        | US | UTL | System and Method for Automatically Suggesting Diverse and Personalized Message Completions                   | 8/22/2013 - 10/13/2015 |
| -       | -               | 14/880,579        | US | UTL | System and Method for Automatically Suggesting Diverse and Personalized Message Completions                   | 10/12/2015 -           |
| 9197607 | 2015-0052586 A1 | 13/968,314        | US | UTL | Enhancing Network Security  | 8/15/2013 - 11/24/2015 |
| -       | -               | 14/410,662        | US | UTL | METHOD AND SYSTEM FOR PROVIDING CONTENT WITH A USER INTERFACE   | 12/29/2014 -           |
| -       | 2014/194440     | PCT/CN2013/000673 | WO | UTL | METHOD AND SYSTEM FOR PROVIDING CONTENT WITH A USER INTERFACE   | 6/5/2013 -             |

PATENT

REEL: 054675 FRAME: 0164



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|         |                 |                  |                  |     |  |                        |
|---------|-----------------|------------------|------------------|-----|--|------------------------|
| -       | -               | 14/022,069       | US               | UTL | System And Method For Reconciling Transactional And Non-Transactional Operations In Key-Value Stores | 9/9/2013 -             |
| 9058666 | 2014-0270525 A1 | 13/844,637       | US               | UTL | Forming Regions Characterized by Labeled Measurements  | 3/15/2013 - 6/16/2015  |
| -       | 2014-0337132 A1 | 13/888,961       | US               | UTL | DYNAMIC TEXT REPLACEMENT IN E-BOOKS FOR ADVERTISING  | 5/7/2013 -             |
| -       | 2014-0337116-A1 | 13/891,904       | US               | UTL | MARKETING TECHNIQUE TO NEGOTIATE PRICE OF PRODUCT  | 5/10/2013 -            |
| -       | 2014-0344060 A1 | 13/896,006       | US               | UTL | System and Method For Targeting User Interests Based on Mobile Call Logs                             | 5/16/2013 -            |
| -       | 2014-0337169-A1 | 13/889,032       | US               | UTL | ONLINE AND OFFLINE COLLABORATION ASSOCIATED WITH SHOPPING AND PURCHASING                             | 5/7/2013 -             |
| -       | 2015-0012811 A1 | 13/935,514       | US               | UTL | Interactive sitemap with user footprints   | 7/4/2013 -             |
| -       | 2015-0113091 A1 | 14/061,515       | US               | UTL | Masterless Cache Replication   | 10/23/2013 -           |
| -       | -               | 13/953,870       | US               | UTL | SYSTEM AND METHOD FOR SOCIAL DISPLAY ADVERTISEMENTS  | 7/30/2013 -            |
| -       | 2015-0033141 A1 | 13/950,067       | US               | UTL | SYSTEM AND METHOD FOR PROVIDING AN INTERACTIVE MESSAGE INBOX   | 7/24/2013 -            |
| -       | 2015-0007289 A1 | 13/927,493       | US               | UTL | Motion-Based Human Verification System and Method  | 6/26/2013 -            |
| 9191788 | 2015-0057035 A1 | 13/973,430       | US               | UTL | System and method for Contextual Social Messaging  | 8/22/2013 - 11/17/2015 |
| -       | -               | -                | 2014110658175 CN | UTL | User Engagement-Based Contextually-Dependent Automated Pricing for Non-Guaranteed Delivery           | 11/18/2014 -           |
| -       | 2951711         | 14763965 EP      | EP               | UTL | Display Time of a Web Page   | 3/14/2014 -            |
| -       | -               | 103108974 TW     | TW               | UTL | Display Time of a Web Page   | 3/13/2014 -            |
| -       | 2014-0281858 A1 | 13/843,433       | US               | UTL | Display Time of a Web Page   | 3/15/2013 -            |
| -       | -               | PCT/US2014/29468 | WO               | UTL | Display Time of a Web Page   | 3/14/2014 -            |
| 9146842 | 2015-0052500 A1 | 13/967,852       | US               | UTL | Testing Computer-Implementable Instructions  | 8/15/2013 - 9/29/2015  |
| -       | 2015-0019474 A1 | 13/938,718       | US               | UTL | Influence Maximization with Viral Product Design   | 7/10/2013 -            |
| -       | 2015-0052126 A1 | 13/969,920       | US               | UTL | Method and System for Recommending Relevant Web Content to Second Screen Application Users           | 8/19/2013 -            |
| -       | 2015-0038114 A1 | 13/958,520       | US               | UTL | Methods and System for Device Authentication   | 8/2/2013 -             |
| -       | 2014-0278952 A1 | 13/844,518       | US               | UTL | Online Advertisement Push Delivery   | 3/15/2013 -            |
| -       | 2014-0279071 A1 | 13/844,594       | US               | UTL | Online Advertising Dashboard   | 3/15/2013 -            |
| -       | 2014-0279070 A1 | 13/844,439       | US               | UTL | Online Advertisement Real-Time Update.   | 3/15/2013 -            |
| -       | 2015-0033194 A1 | 13/951,339       | US               | UTL | Multi-Finger User Identification   | 7/25/2013 -            |
| 9171000 | 2014-0279736 A1 | 13/833,430       | US               | UTL | Method and System for Mapping Short Term Ranking Optimization Objective to Long Term Engagement      | 3/15/2013 - 10/27/2015 |
| -       | 2014-0280251 A1 | 14/123,321       | US               | UTL | Almost online large scale collaborative filtering based recommendation system                        | 12/2/2013 -            |

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|   |         |                   |    |     |   |                       |
|---|---------|-------------------|----|-----|---|-----------------------|
| - | -       | PCT/US13/32416    | WO | UTL | Almost Online Large Scale Collaborative Filtering Based Recommendation System   | 3/15/2013 -           |
| - | -       | 103109366         | TW | UTL | Method and System for Discovery of User Unknown Interests   | 3/14/2014 -           |
| - | 9270767 | 2014-0280548 A1   | US | UTL | Method and System for Discovery of User Unknown Interests   | 3/15/2013 - 2/23/2016 |
| - | -       | 13/835,745        | US | UTL | Method and System for Discovery of Unknown User Interests   | 3/6/2014 -            |
| - | -       | PCT/US2014/021149 | WO | UTL | Social Media Based Content Selection System   | 3/13/2014 -           |
| - | -       | 2015-0310018 A1   | US | UTL | SOCIAL MEDIA BASED CONTENT SELECTION SYSTEM   | 3/15/2013 -           |
| - | -       | PCT/CN2013/00300  | WO | UTL | Social Media Based Content Selection System   | 3/10/2014 -           |
| - | -       | 2014/139055       | US | UTL | SOCIAL MEDIA BASED CONTENT SELECTION SYSTEM   | 3/15/2013 -           |
| - | -       | 14/343,931        | US | UTL | Method and System for Dynamic Discovery and Adaptive Crawling of Content From the Internet  | 3/15/2013 -           |
| - | -       | PCT/CN2013/00301  | WO | UTL | Method and System for Dynamic Discovery and Adaptive Crawling of Content From the Internet  | 3/15/2013 -           |
| - | -       | 2014/139056       | WO | UTL | Method and System for Dynamic Discovery and Adaptive Crawling of Content From the Internet  | 3/15/2013 -           |
| - | -       | 2014-0280554 A1   | US | UTL | Method and System for Dynamic Discovery and Adaptive Crawling of Content From the Internet  | 3/15/2013 -           |
| - | -       | 13/838,046        | US | UTL | Method and System for Dynamic Discovery and Adaptive Crawling of Content From the Internet  | 3/15/2013 -           |
| - | -       | -                 | WO | UTL | Dynamic discovery and adaptive crawling of content from the web for content recommendation  | -                     |
| - | -       | -                 | WO | UTL | Efficient and fault-tolerant distributed algorithm for learning latent factor models through matrix factorization   | -                     |
| - | -       | 2014-0310281 A1   | US | UTL | Efficient and Fault-Tolerant Distributed Algorithm for Learning Latent Factor Models Through Matrix Factorization   | 12/2/2013 -           |
| - | -       | 14/123,259        | US | UTL | Efficient and Fault-Tolerant Distributed Algorithm for Learning Latent Factor Models Through Matrix Factorization   | 12/2/2013 -           |
| - | -       | PCT/US13/32385    | WO | UTL | Efficient and Fault-Tolerant Distributed Algorithm for Learning Latent Factor Models Through Matrix Factorization   | 3/15/2013 -           |
| - | -       | 2014-0280350 A1   | US | UTL | Method and System for User Profiling Via Mapping Third Party Interests to a Universal Interest Space  | 3/15/2013 -           |
| - | -       | 13/837,357        | US | UTL | Method and System for User Profiling Via Mapping Third Party Interests to a Universal Interest Space  | 3/15/2013 -           |
| - | -       | 2014-0279918 A1   | US | UTL | Method and System for Data Triggered Dynamic Log Level Control  | 3/15/2013 -           |
| - | -       | 13/833,510        | US | UTL | Method and System for Data Triggered Dynamic Log Level Control  | 3/15/2013 -           |
| - | -       | 2014-0280549 A1   | US | UTL | Method and System for Efficient Matching of User Profiles with Audience Segments  | 3/15/2013 -           |
| - | -       | 13/836,052        | US | UTL | Method and System for Efficient Matching of User Profiles with Audience Segments  | 3/15/2013 -           |
| - | -       | 2015-0039630 A1   | US | UTL | METHOD AND APPARATUS FOR ACCURATE LOCALIZATION OF POINTS OF INTEREST  | 7/30/2013 -           |
| - | -       | 13/954,129        | US | UTL | METHOD AND APPARATUS FOR ACCURATE LOCALIZATION OF POINTS OF INTEREST  | 7/30/2013 -           |
| - | -       | 2015-0039631 A1   | US | UTL | Method and Apparatus for Accurate Localization of Points of Interest Using a World Shape SYSTEM AND METHOD FOR DISPLAYING TRANSITIONAL MOBILE ADS DURING NETWORK PAGE DOWNLOAD LATENCY TIME | 7/24/2014 -           |
| - | -       | 14/339,965        | US | UTL | Method and Apparatus for Accurate Localization of Points of Interest Using a World Shape SYSTEM AND METHOD FOR DISPLAYING TRANSITIONAL MOBILE ADS DURING NETWORK PAGE DOWNLOAD LATENCY TIME | 7/24/2014 -           |
| - | -       | -                 | US | UTL | Local Recommendation Engine   | 12/3/2013 -           |
| - | -       | 14/094,803        | US | UTL | Local Recommendation Engine   | 12/3/2013 -           |
| - | -       | 2015-0081695 A1   | US | UTL | SYSTEM AND METHOD FOR CONTENT BASED SOCIAL RECOMMENDATIONS AND MONETIZATION THEREOF   | 9/18/2013 -           |
| - | -       | 14/030,777        | US | UTL | SYSTEM AND METHOD FOR CONTENT BASED SOCIAL RECOMMENDATIONS AND MONETIZATION THEREOF   | 9/18/2013 -           |
| - | -       | 2015-0032535 A1   | US | UTL | SYSTEM AND METHOD FOR CONTENT BASED SOCIAL RECOMMENDATIONS AND MONETIZATION THEREOF   | 7/25/2013 -           |
| - | -       | 13/951,078        | US | UTL | SYSTEM AND METHOD FOR CONTENT BASED SOCIAL RECOMMENDATIONS AND MONETIZATION THEREOF   | 7/25/2013 -           |
| - | -       | 2015-0149737 A1   | US | UTL | Method or System for Access to Shared Resource  | 11/22/2013 -          |
| - | -       | 14/087,937        | US | UTL | Method or System for Access to Shared Resource  | 11/22/2013 -          |

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|---------|-----------------|-------------------|----|-----|--|--------------|------------|
| 9066116 | 2015-0052548 A1 | 13/965,934        | US | UTL | Encoding Pre-roll Advertisements in Progressively-Loading Images                       | 8/13/2013    | 6/23/2015  |
| -       | 2015-0096012 A1 | 14/038,783        | US | UTL | Secure Physical Authentication Input with Personal Display or Sound Device             | 9/27/2013 -  |            |
| -       | 2015-0026266 A1 | 13/944,519        | US | UTL | Share to Stream  | 7/17/2013 -  |            |
| 9135151 | 2015-0082280 A1 | 14/030,480        | US | UTL | Automatic Verification by Comparing User Interface Images                              | 9/18/2013    | 9/15/2015  |
| -       | 2014-0317086 A1 | 13/865,082        | US | UTL | Efficient Database Searching   | 4/17/2013 -  |            |
| -       | -               | PCT/US2014/032549 | WO | UTL | Efficient Database Searching   | 4/1/2014 -   |            |
| -       | 2015-0032720 A1 | 13/948,610        | US | UTL | Optimizing Database Queries  | 7/23/2013 -  |            |
| -       | 2015-0142513 A1 | 14/084,341        | US | UTL | Just-in-Time Guaranteed Advertisement Supply Forecasting System and Method             | 11/19/2013 - |            |
| -       | 2015-0095984 A1 | 14/038,785        | US | UTL | METHOD AND SYSTEM FOR SYSTEM FOR CONTROLLING ONLINE USER ACCOUNT USING A MOBILE DEVICE | 9/27/2013 -  |            |
| -       | 2014-0344249 A1 | 13/895,252        | US | UTL | Simple Action Record Search  | 5/15/2013 -  |            |
| -       | -               | 14/050,179        | US | UTL | Wearable Text Personalization  | 10/9/2013 -  |            |
| -       | -               | 14/026,214        | US | UTL | Type Free Search Assist  | 9/13/2013 -  |            |
| -       | 2015-0189475 A1 | 14/145,666        | US | UTL | Low key point of interest notification   | 12/31/2013 - |            |
| -       | 2015-0264565 A1 | 14/204,692        | US | UTL | Machine biometrics by the use of dynamic benchmarks                                    | 3/11/2014 -  |            |
| -       | -               | 14/069,277        | US | UTL | Cross-Platform Interface for a Television Device                                       | 10/31/2013 - |            |
| -       | -               | 14/069,275        | US | UTL | Recommendation of Television Content   | 10/31/2013 - |            |
| 9158850 | 2015-0032740 A1 | 13/950,132        | US | UTL | Personal Trends Module   | 7/24/2013    | 10/13/2015 |
| -       | 2016-0034592 A1 | 14/880,701        | US | UTL | Personal Trends Module   | 10/12/2015 - |            |
| -       | 104536549 A     | 201410758008      | CN | UTL | Cold Row Encapsulation for Server Farm Cooling System                                  | 3/31/2010 -  |            |
| -       | 2821950         | 13193386          | EP | UTL | Quality Scoring System for Advertisements and Content in an Online System              | 11/18/2013 - |            |
| -       | 1202962         | 15103490          | HK | UTL | Quality Scoring System For Advertisements and Content in An Online System              | 4/9/2015 -   |            |
| -       | -               | 103120461         | TW | UTL | Quality Scoring System For Advertisements and Content in An Online System              | 6/13/2014 -  |            |
| -       | 2015-0006280 A1 | 13/932,655        | US | UTL | Quality Scoring System For Advertisements and Content in An Online System              | 7/1/2013 -   |            |
| -       | 2015-0052462 A1 | 13/967,393        | US | UTL | Capture and Retrieval of a Personalized Mood Icon                                      | 8/15/2013 -  |            |
| -       | -               | PCT/US2014/047785 | WO | UTL | Capture and Retrieval of a Personalized Mood Icon                                      | 7/23/2014 -  |            |
| -       | 2015-0120745 A1 | 14/064,707        | US | UTL | Dynamic Database Indexes for Entity Attribute Value Stores                             | 10/28/2013 - |            |
| -       | 2015-0154292 A1 | 14/095,571        | US | UTL | Recirculating On-Line Traffic, Such As Within A Special Purpose Search Engine          | 12/3/2013 -  |            |
| -       | 2015-0095155 A1 | 14/040,987        | US | UTL | Method and System for Collaborative Location Detection                                 | 9/30/2013 -  |            |

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|   |                 |                |    |     |   |              |
|---|-----------------|----------------|----|-----|---|--------------|
| - | 2015-0149275 A1 | 14/088,802     | US | UTL | Quasi-Proportional Allocation of Combination Items for Serving in an Online Auction-Based Marketplace | 11/25/2013 - |
| - | 2015-0105017 A1 | 14/051,218     | US | UTL | Cross Device Information exchange using gestures and locations  | 10/10/2013 - |
| - | 2015-0130716 A1 | 14/077,821     | US | UTL | Audio-Visual Interaction with User Devices  | 11/12/2013 - |
| - | 2015-0161704 A1 | 14/101,571     | US | UTL | Crowdsourcing Retail Price and Location Method and System   | 12/10/2013 - |
| - | 2015-0249633 A1 | 14/195,753     | US | UTL | System and method for email notification  | 3/3/2014 -   |
| - | 2015-0156419 A1 | 14/094,010     | US | UTL | Blur Aware Photo Feedback   | 12/2/2013 -  |
| - | 2015-0169606 A1 | 14/106,989     | US | UTL | Contextual Based Search Suggestion  | 12/16/2013 - |
| - | 2015-0242419 A1 | 14/192,624     | US | UTL | LOCALIZED SELECTABLE LOCATION AND/OR TIME FOR SEARCH QUERIES AND/OR SEARCH QUERY RESULTS              | 2/27/2014 -  |
| - | -               | -              | US | UTL | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/17/2012 - |
| - | -               | 2857517 CA     | CA | UTL | Systems and Methods For Search Results Targeting  | 12/17/2012 - |
| - | -               | 201410829895.X | CN | UTL | Systems and methods involving features of search and/or search integration                            | 12/26/2014 - |
| - | 2791780         | 12857893 EP    | EP | UTL | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/17/2012 - |
| - | -               | 61/576,352     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/15/2011 - |
| - | -               | 61/576,353     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/15/2011 - |
| - | -               | 61/576,347     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/15/2011 - |
| - | -               | 61/576,348     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 12/15/2011 - |
| - | -               | 61/658,907     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 6/12/2012 -  |
| - | -               | 61/658,909     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 6/12/2012 -  |
| - | -               | 61/658,910     | US | PRV | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION                            | 6/12/2012 -  |
| - | -               | 13/717,674     | US | UTL | Systems and Methods Involving Features of Search and/or Search Integration                            | 12/17/2012 - |

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|---------|-----------------|-------------------|----|-----|---|-----------------------|
| -       | -               | 13/717,662        | US | UTL | SYSTEMS AND METHODS INVOLVING FEATURES OF SEARCH AND/OR SEARCH INTEGRATION              | 12/17/2012 -          |
| -       | -               | 13/916,564        | US | UTL | SYSTEMS AND METHODS INVOLVING SEARCH ENHANCEMENT FEATURES ASSOCIATED WITH MEDIA MODULES | 6/12/2013 -           |
| -       | 2013/090946     | PCT/US12/070214   | WO | UTL | FEATURES OF SEARCH AND/OR SEARCH INTEGRATION  | 12/17/2012 -          |
| -       | WO 2013/188603  | PCT/US2013/045529 | WO | UTL | SYSTEMS AND METHODS INVOLVING SEARCH ENHANCEMENT FEATURES ASSOCIATED WITH MEDIA MODULES | 6/12/2013 -           |
| -       | 2015-0178775 A1 | 14/138,634        | US | UTL | Recommending Search Bid Phrases For Monetization Of Short Text Documents                | 12/23/2013 -          |
| -       | 2015-0186394 A1 | 14/144,250        | US | UTL | Query Suggestions   | 12/30/2013 -          |
| -       | 2015-0178282 A1 | 14/139,607        | US | UTL | Fast and Dynamic Targeting of Users with Engaging Content                               | 12/23/2013 -          |
| -       | -               | 14/218,818        | US | UTL | System and method for enhanced accuracy cardinality estimation                          | 3/18/2014 -           |
| -       | 105009103 A     | 201480013131      | CN | UTL | Display Time of a Web Page  | 3/14/2014 -           |
| -       | EP2524278       | 10843453          | EP | UTL | Preview Functionality for Increased Browsing Speed                                      | 12/6/2010 -           |
| -       | 2011-0173569 A1 | 12/687,012        | US | UTL | Preview Functionality for Increased Browsing Speed                                      | 1/13/2010 -           |
| -       | 2011/087623     | PCT/US10/59130    | WO | UTL | PREVIEW FUNCTIONALITY FOR INCREASED BROWSING SPEED                                      | 12/6/2010 -           |
| 8209349 | 2011-0191314 A1 | 12/698,064        | US | UTL | Integrated Saved Search Results   | 2/1/2010 - 6/26/2012  |
| 8356051 | 2012-0233145 A1 | 13/477,972        | US | UTL | Integrated Saved Search Results   | 5/22/2012 - 1/15/2013 |
| -       | 105009701 A     | 201480013136      | CN | UTL | Atmospheric Cooling of Servers in a Data Center   | 3/14/2014 -           |
| -       | EP2545512       | 11753781          | EP | UTL | User Specific Feed Recommendations  | 2/22/2011 -           |
| 8832099 | 2011-0225197 A1 | 12/720,394        | US | UTL | User Specific Feed Recommendations  | 3/9/2010 - 9/9/2014   |
| -       | 2015-0026148 A1 | 14/449,006        | US | UTL | User specific feed recommendations  | 7/31/2014 -           |
| -       | 2011/112349     | PCT/US11/25718    | WO | UTL | User Specific Feed Recommendations  | 2/22/2011 -           |
| 8281232 | 2011-0264992 A1 | 12/765,812        | US | UTL | Integrated Adaptive URL-Shortening Functionality  | 4/22/2010 - 10/2/2012 |
| -       | 2012-0324327 A1 | 13/597,171        | US | UTL | Integrated Adaptive URL-Shortening Functionality  | 8/28/2012 -           |
| 8386915 | 2012-0023390 A1 | 12/843,792        | US | UTL | Integrated Link Statistics Within An Application  | 7/26/2010 - 2/26/2013 |
| -       | -               | 61/367,936        | US | PRV | System and Method for Optimizing Window Display   | 7/27/2010 -           |
| -       | 2012-0030616 A1 | 13/192,366        | US | UTL | System and Method for Optimizing Window Display   | 7/27/2011 -           |
| -       | 2012-0109922 A1 | 12/913,724        | US | UTL | User Feed Data Delivery   | 10/27/2010 -          |
| 8510379 | 2012-0215846 A1 | 13/033,579        | US | UTL | Display of Content Interaction Data in a Browser  | 2/23/2011 - 8/13/2013 |
| -       | -               | 61/555,475        | US | PRV | Social Web Browsing   | 11/3/2011 -           |
| -       | 2013-0117675 A1 | 13/668,249        | US | UTL | Social Web Browsing   | 11/3/2012 -           |

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|----------|-----------------|-------------------|----|-----|---|---------------------|
| -        | 2014-0108436 A1 | 13/649,780        | US | UTL | Internet Browsing with Customized Content   | 10/11/2012 -        |
| -        | 2014-0108968 A1 | 13/649,789        | US | UTL | Visual Presentation of Customized Content   | 10/11/2012 -        |
| -        | 2014-0282029 A1 | 13/797,320        | US | UTL | VISUAL PRESENTATION OF CUSTOMIZED CONTENT   | 3/12/2013 -         |
| D677,268 | -               | 29/402,213        | US | DES | Display Panel For A Programmed Computer System With A Graphical User Interface                                    | 9/21/2011 3/5/2013  |
| D678,313 | -               | 29/402,212        | US | DES | Display Panel For A Programmed Computer System With A Graphical User Interface                                    | 9/21/2011 3/19/2013 |
| -        | -               | 14/308,573        | US | UTL | System and Method for Address Based Locations   | 6/18/2014 -         |
| -        | 2013-0138507 A1 | 13/308,527        | US | UTL | PREDICTIVE MODELING FOR E-COMMERCE ADVERTISING SYSTEMS AND METHODS  | 11/30/2011 -        |
| -        | -               | -                 | US | UTL | ONLINE MARKETPLACE TO FACILITATE THE DISTRIBUTION OF MARKETING SERVICES FROM A MARKETER TO AN ON-LINE MERCHANT    | 11/12/2013 -        |
| -        | -               | 61/725,279        | US | PRV | ONLINE MARKETPLACE TO FACILITATE THE DISTRIBUTION OF MARKETING SERVICES FROM A MARKETER TO AN ON-LINE MERCHANT    | 11/12/2012 -        |
| -        | 2014-0143067-A1 | 14/078,137        | US | UTL | Online Marketplace To Facilitate The Distribution of Marketing Services From A Marketer To An On-line Merchant    | 11/12/2013 -        |
| -        | 2014/075081     | PCT/US2013/069707 | WO | UTL | ONLINE MARKETPLACE TO FACILITATE THE DISTRIBUTION OF MARKETING SERVICES FROM A MARKETER TO AN ON-LINE MERCHANT    | 11/12/2013 -        |
| -        | -               | 61/772,389        | US | PRV | METHODS AND SYSTEMS FOR FACILITATING COMMUNICATIONS BETWEEN PROVIDERS OF ON-LINE SERVICES AND POTENTIAL CUSTOMERS | 3/4/2013 -          |
| -        | 2014-0297362 A1 | 14/196,389        | US | UTL | Methods and systems for facilitating communications between providers of on-line services and potential customers | 3/4/2014 -          |
| -        | -               | 61/487,237        | US | PRV | USER INTERFACE FOR REAL TIME VIEW OF WEB SITE ACTIVITY  | 5/17/2011 -         |
| -        | 2012-0316902 A1 | 13/474,555        | US | UTL | USER INTERFACE FOR REAL TIME VIEW OF WEB SITE ACTIVITY  | 5/17/2012 -         |
| -        | 2013-0018713 A1 | 13/181,381        | US | UTL | SYSTEM AND METHODS FOR REAL TIME E-COMMERCE PROMOTIONAL ACTIVITIES  | 7/12/2011 -         |
| -        | 2012-0296697 A1 | 13/227,380        | US | UTL | SYSTEMS AND METHODS FOR AUTOMATED REAL TIME E-COMMERCE MARKETING ACTIVITIES                                       | 9/7/2011 -          |
| -        | 2012-0296682 A1 | 13/227,458        | US | UTL | REAL TIME E-COMMERCE USER INTERFACE FOR MONITORING AND INTERACTING WITH CONSUMERS                                 | 9/7/2011 -          |

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|---|-----------------|-------------------|----|-----|--|--------------|
| - | 2015-0134402 A1 | 14/076,551        | US | UTL | System and Method for Network-Oblivious Community Detection  | 11/11/2013 - |
| - | 2015-0127468 A1 | 14/073,575        | US | UTL | User Engagement Based Nonguaranteed Delivery Pricing   | 11/6/2013 -  |
| - | 2015-0039420-A1 | 14/195,668        | US | UTL | 3-dimensional augmented reality markers  | 3/3/2014 -   |
| - | 2015-0039419-A1 | 14/043,778        | US | UTL | Audience Centric Pricing   | 10/1/2013 -  |
| - | 2015-0074599 A1 | 14/043,757        | US | UTL | Keyword Price Recommendation   | 10/1/2013 -  |
| - | 2015-0074533 A1 | 14/020,693        | US | UTL | Mobile Video Channel-Based Gestural User Interface   | 9/6/2013 -   |
| - | 2015-0089348 A1 | 14/102,852        | US | UTL | User-Programmable Channel Store for Video System and Method for Web Page Background Image Delivery   | 12/11/2013 - |
| - | -               | 14/033,935        | US | UTL |  | 9/23/2013 -  |
| - | -               | 61/887,311        | US | PRV | Selecting Among Advertisements Competing For A Slot Associated With Electronic Content Delivered Over A Network Based Upon Predicted Latency | 10/4/2013 -  |
| - | -               | 14/320,280        | US | UTL | Selecting Among Advertisements Competing for a Slot Associated with Electronic Content Delivered Over a Network Based Upon Predicted Latency | 6/30/2014 -  |
| - | 2015-0039426-A1 | 14/043,800        | US | UTL | Revenue Share Analysis   | 10/1/2013 -  |
| - | -               | 14/144,130        | US | UTL | Systems and Methods For A Unified Audience Targeting Solution  | 12/30/2013 - |
| - | 2015/096146     | PCT/CN2013/090731 | WO | UTL | Systems and Methods for A Unified Audience Targeting Solution  | 12/27/2013 - |
| - | 2015-0100908 A1 | 14/046,930        | US | UTL | Alternate Screen Reveal for Instant Privacy  | 10/5/2013 -  |
| - | -               | 14/133,032        | US | UTL | Systems and Methods for Value Added In-Stream Content Advertising  | 12/18/2013 - |
| - | -               | 103104386         | TW | UTL | Active Preference Learning Method and System   | 2/11/2014 -  |
| - | 2015-0220950 A1 | 14/174,399        | US | UTL | Active Preference Learning Method and system   | 2/6/2014 -   |
| - | -               | 14/296,341        | US | UTL | Automatic virtual machine resizing to optimize resource availability   | 6/4/2014 -   |
| - | 2015-0278346 A1 | 14/226,304        | US | UTL | Method and System for Decomposing Social Relationships into Domains of Interactions  | 3/26/2014 -  |
| - | 105045796 A     | 201510196892      | CN | UTL | Intent Based Search Results Associated With A Modular Search Object Framework  | 4/23/2015 -  |
| - | -               | 14193956          | EP | UTL | User Engagement-Based Contextually-Dependent Automated Pricing for Non-Guaranteed Delivery   | 11/14/2014 - |
| - | -               | 15110190          | HK | UTL | User Engagement-Based Contextually-Dependent Automated Pricing for Non-Guaranteed Delivery   | 11/18/2014 - |
| - | -               | 103139715         | TW | UTL | User Engagement-Based Contextually-Dependent Automated Pricing for Non-Guaranteed Delivery   | 11/17/2014 - |

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|   |                 |                   |    |     |  |              |
|---|-----------------|-------------------|----|-----|--|--------------|
| - | 2015-0142557 A1 | 14/084,412        | US | UTL | User Engagement-Based Contextually-Dependent Automated Pricing for Non-Guaranteed Delivery Systems and Methods For Commercial Query Suggestion | 11/19/2013 - |
| - | -               | 14/262,120        | US | UTL | Systems and Methods For Commercial Query Suggestion  | 4/25/2014 -  |
| - | 2015/161515     | PCT/CN2014/076277 | WO | UTL | Suggestion   | 4/25/2014 -  |
| - | 2015-0381682 A1 | 14/320,620        | US | UTL | Podcasts In Personalized Content Streams   | 6/30/2014 -  |
| - | 2015-0244577 A1 | 14/192,771        | US | UTL | Method Of Queuing Signals  | 2/27/2014 -  |
| - | 2015-0350132 A1 | 14/291,422        | US | UTL | Method and System for Predicting Future Email  | 5/30/2014 -  |
| - | 2015-0178790 A1 | 14/136,045        | US | UTL | User Engagement-Based Dynamic Reserve Price for Non-Guaranteed Delivery Advertising Auction  | 12/20/2013 - |
| - | 105022776 A     | 201510198039 CN   | CN | UTL | Enhanced Search Results Associated With A Modular Search Object Framework  | 4/23/2015 -  |
| - | -               | 15150038 EP       | EP | UTL | Systems and Methods For Search Results Targeting   | 1/2/2015 -   |
| - | -               | 16100087 HK       | HK | UTL | Systems and Methods For Search Results Targeting   | 12/26/2014 - |
| - | -               | 103144935 TW      | TW | UTL | Systems and Methods For Search Results Targeting   | 12/23/2014 - |
| - | -               | 14/146,637        | US | UTL | Secure information exchange between devices using location and unique codes  | 1/2/2014 -   |
| - | 2015-0289005 A1 | 14/248,311        | US | UTL | Secure information exchange between devices using location and unique codes  | 4/8/2014 -   |
| - | -               | 14/986,507        | US | UTL | Secure information exchange between devices using location and unique codes  | 12/31/2015 - |
| - | 2016-0012485 A1 | 14/400,578        | US | UTL | BROWSING CONTEXT BASED ADVERTISEMENT SELECTION   | 11/12/2014 - |
| - | 2016/004586     | PCT/CN2014/081854 | WO | UTL | Browsing Context based Advertisement Selection   | 7/8/2014 -   |
| - | 2015-0363509 A1 | 14/304,754        | US | UTL | Entity Generation Using Queries  | 6/13/2014 -  |
| - | -               | 14/412,033        | US | UTL | Method and System for Managing Online Bidding  | 12/30/2014 - |
| - | 2015/106410     | PCT/CN2014/070666 | WO | UTL | Smart RTB Traffic Shedding   | 1/15/2014 -  |
| - | -               | 14/401,601        | US | UTL | DETERMINING TRAFFIC QUALITY USING EVENT-BASED TRAFFIC SCORING  | 11/17/2014 - |
| - | 2015/184579     | PCT/CN2014/079061 | WO | UTL | Determining traffic quality using event-based traffic scoring  | 6/3/2014 -   |
| - | 2016-0019213 A1 | 14/332,501        | US | UTL | Method and System for Predicting Search Results Quality in Vertical Ranking  | 7/16/2014 -  |
| - | -               | 14/472,430        | US | UTL | Emotionally Relevant Content   | 8/29/2014 -  |
| - | -               | 104114232 TW      | TW | UTL | Synthetic Question Formulation   | 5/5/2015 -   |
| - | 2015-0339590 A1 | 14/284,180        | US | UTL | Synthetic Question Formulation   | 5/21/2014 -  |
| - | -               | PCT/US2015/031453 | WO | UTL | Synthetic Question Formulation   | 5/19/2015 -  |
| - | 2015-0278909 A1 | 14/227,172        | US | UTL | Techniques For Improving Diversity and Privacy in Connection with Use of Recommendation Systems  | 3/27/2014 -  |



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|---|-----------------|-------------------|----|-----|--|--------------|
| - | 2015-0347591 A1 | 14/294,362        | US | UTL | Information Matching and Match Validation  | 6/3/2014 -   |
| - | -               | 14/399,331        | US | UTL | METHOD AND SYSTEM FOR PERSONALIZED PRESENTATION OF CONTENT   | 11/6/2014 -  |
| - | 2016/004585     | PCT/CN2014/081853 | WO | UTL | Method and system for personalized presentation of content   | 7/8/2014 -   |
| - | -               | 14/436,194        | US | UTL | Method and system for exploring crowd sourced user curated native advertisements                                     | 4/16/2015 -  |
| - | -               | PCT/CN2014/094109 | WO | UTL | Method and System for Exploring Crowd Sourced User Curated Native Advertisements                                     | 12/17/2014 - |
| - | -               | 14/408,192        | US | UTL | Method and system for advertisement coordination   | 12/15/2014 - |
| - | -               | 14/408,528        | US | UTL | Method and system for advertisement coordination   | 12/16/2014 - |
| - | -               | 14/410,372        | US | UTL | Method and system for advertisement coordination   | 12/22/2014 - |
| - | -               | 14/408,235        | US | UTL | Method and system for advertisement coordination   | 12/15/2014 - |
| - | -               | 14/408,222        | US | UTL | Method and system for advertisement coordination   | 12/15/2014 - |
| - | 2015/184601     | PCT/CN2014/079146 | WO | UTL | Method and system for advertisement coordination   | 6/4/2014 -   |
| - | 2015/184594     | PCT/CN2014/079134 | WO | UTL | Method and system for advertisement coordination   | 6/4/2014 -   |
| - | 2015/184607     | PCT/CN2014/079168 | WO | UTL | Method and system for advertisement coordination   | 6/4/2014 -   |
| - | 2015/184606     | PCT/CN2014/079163 | WO | UTL | Method and system for advertisement coordination   | 6/4/2014 -   |
| - | 2015/184599     | PCT/CN2014/079143 | WO | UTL | Method and system for advertisement coordination   | 6/4/2014 -   |
| - | -               | 14/405,971        | US | UTL | Personalizing User Interface (UI) Elements   | 12/5/2014 -  |
| - | -               | PCT/CN2014/088704 | WO | UTL | Personalizing User Interface (UI) Elements   | 10/16/2014 - |
| - | -               | 14/497,760        | US | UTL | Association-and-perspective-based content item recommendations   | 9/26/2014 -  |
| - | 2015-0278877 A1 | 14/242,386        | US | UTL | User Engagement-Based Contextually-Dependent Automated Reserve Price for Non-Guaranteed Delivery Advertising Auction | 4/1/2014 -   |
| - | -               | 14/259,888        | US | UTL | Opportunistically solving search use cases   | 4/23/2014 -  |
| - | 2015-0269122 A1 | 14/222,584        | US | UTL | Computation Through Array Decomposition  | 3/21/2014 -  |
| - | -               | 14/265,155        | US | UTL | Dynamic text ads based on a page knowledge graph   | 4/29/2014 -  |
| - | -               | 14/194,205        | US | UTL | Systems and Methods for Providing Mobile Advertisements  | 2/28/2014 -  |
| - | 2016-0012104 A1 | 14/329,154        | US | UTL | Search interfaces with preloaded suggested search queries  | 7/11/2014 -  |
| - | 2015-0363421 A1 | 14/301,834        | US | UTL | Directories in distributed file systems  | 6/11/2014 -  |
| - | 2016-0019578 A1 | 14/334,494        | US | UTL | METHOD OF LOG SCANNING   | 7/17/2014 -  |

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|---|-----------------|-------------------|----|-----|--|--------------|
| - | 2015-0227628 A1 | 14/175,667        | US | UTL | Recursive Unique User Metrics In Real Time Ad Impression Availability and Associated Adjustment Values | 2/7/2014 -   |
| - | 2015-0242886 A1 | 14/189,794        | US | UTL | Elasticity of Engagement to Ad Quality   | 2/25/2014 -  |
| - | 2015-0356595 A1 | 14/297,054        | US | UTL | System and Method for Online Handwriting Recognition in Web Queries                                    | 6/5/2014 -   |
| - | 105095878A      | 201510494632      | CN | UTL |  | 7/28/2010 -  |
| - | -               | -                 | EP | UTL | A algorithm to auto-generate new bidding keyword for advertiser in curveball and moneyball             | -            |
| - | -               | -                 | JP | UTL | A algorithm to auto-generate new bidding keyword for advertiser in curveball and moneyball             | -            |
| - | -               | -                 | KR | UTL | A algorithm to auto-generate new bidding keyword for advertiser in curveball and moneyball             | -            |
| - | -               | -                 | TW | UTL | A algorithm to auto-generate new bidding keyword for advertiser in curveball and moneyball             | -            |
| - | 2015/135110     | 14/242,252        | US | UTL | Systems and Methods for Keyword Suggestion   | 4/1/2014 -   |
| - | -               | PCT/CN2014/073133 | WO | UTL | Systems and Methods For Keyword Suggestion   | 3/10/2014 -  |
| - | -               | 14/501,222        | US | UTL | Automated search intent discovery  | 9/30/2014 -  |
| - | 2015-0379571 A1 | 14/320,048        | US | UTL | Systems and Methods for Search Retargeting Using Directed Distributed Query Word Representations       | 6/30/2014 -  |
| - | -               | 14/505,337        | US | UTL | Infusing product popularity insights into search results for product research queries                  | 10/2/2014 -  |
| - | 2015-0310016 A1 | 14/264,112        | US | UTL | Method and System for Entity Recognition in a Query  | 4/29/2014 -  |
| - | 2016-0034977 A1 | 14/449,801        | US | UTL | System and Method for Embedded Search within Messaging Applications                                    | 8/1/2014 -   |
| - | 2015-0294375 A1 | 14/252,552        | US | UTL | Frequent Markup Techniques For Use in Native Advertisement Placement                                   | 4/14/2014 -  |
| - | -               | 61/970,503        | US | PRV | Native Ad Placement Techniques   | 3/26/2014 -  |
| - | -               | 14/252,501        | US | UTL | Content Guided Techniques For Use In Native Advertisement Placement                                    | 4/14/2014 -  |
| - | 2015-0278847 A1 | 14/252,529        | US | UTL | Xpath Related and Other Techniques For Use In Native Advertisement Placement                           | 4/14/2014 -  |
| - | 2015-0278883 A1 | 14/585,783        | US | UTL | Xpath Related and Other Techniques For Use in Native Advertisement Placement                           | 12/30/2014 - |
| - | -               | 14/508,434        | US | UTL | Method and System for Providing a Synchronization Service  | 10/7/2014 -  |
| - | -               | 14/444,821        | US | UTL | Rainbow event drop detection system  | 7/28/2014 -  |
| - | -               | 14/516,471        | US | UTL | FEATURE SELECTION  | 10/16/2014 - |
| - | -               | 14/506,475        | US | UTL | Auto complete search box based on the user's context to reduce user's input                            | 10/3/2014 -  |

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|---|-----------------|-------------------|----|-----|--|--------------|
| - | -               | 14/336,836        | US | UTL | Systems and Methods For Smooth and Effective Budget Delivery in Online Advertising | 7/21/2014 -  |
| - | -               | 14/466,470        | US | UTL | Method and System For Measuring Effectiveness of User Treatment                    | 8/22/2014 -  |
| - | 2015-0348107 A1 | 14/292,467        | US | UTL | Systems and Methods for Advertising Using Sponsored Verbs and Contexts             | 5/30/2014 -  |
| - | 2015-0317317 A1 | 14/265,900        | US | UTL | Method and System for Providing Query Suggestions Including Entities               | 4/30/2014 -  |
| - | -               | 14/491,070        | US | UTL | Systems and Methods for Image Optimization   | 9/19/2014 -  |
| - | -               | 14/497,591        | US | UTL | Graphical interface presentation of search results                                 | 9/26/2014 -  |
| - | 2015-0293977 A1 | 14/253,613        | US | UTL | Interactive Search Results   | 4/15/2014 -  |
| - | 2015-0317316 A1 | 14/265,509        | US | UTL | Method and System for User Selection of Query Suggestions                          | 4/30/2014 -  |
| - | 2015-0379079 A1 | 14/315,968        | US | UTL | Personalizing Query Rewrites For Ad Matching                                       | 6/26/2014 -  |
| - | 2016-0034976 A1 | 14/447,861        | US | UTL | Advertisement Presentation   | 7/31/2014 -  |
| - | 2016-0041983 A1 | 14/453,915        | US | UTL | Local Query Ranking for Search Assist Method and Apparatus                         | 8/7/2014 -   |
| - | -               | 14/759,121        | US | UTL | Mitigating at least some effects of cookie churn                                   | 7/2/2015 -   |
| - | -               | PCT/CN2014/095877 | WO | UTL | Mitigating at least some effects of cookie churn                                   | 12/31/2014 - |
| - | -               | 14/478,390        | US | UTL | System and method for authentication across devices                                | 9/5/2014 -   |
| - | -               | 14/533,405        | US | UTL | Systems and Methods for Query Rewriting  | 11/5/2014 -  |
| - | 2015-0317310 A1 | 14/265,780        | US | UTL | Method and System for Evaluating Query Suggestions Quality                         | 4/30/2014 -  |
| - | 2015-0379134 A1 | 14/320,255        | US | UTL | RECOMMENDED QUERY FORMULATION  | 6/30/2014 -  |
| - | -               | 14/283,944        | US | UTL | Methods and systems for data traffic control and encryption                        | 5/21/2014 -  |
| - | -               | 14/588,303        | US | UTL | LOCATION UNCERTAINTY IN SEARCH   | 12/31/2014 - |
| - | -               | 14/457,985        | US | UTL | Entity Based Search Advertising Within a Modular Search Object Framework           | 8/12/2014 -  |
| - | 2016-0050166 A1 | 14/459,835        | US | UTL | Expressing Statements in Messages with Personalized Expression Style               | 8/14/2014 -  |
| - | -               | 14/574,906        | US | UTL | INFERRING USER IDENTITY ACROSS   | 12/18/2014 - |
| - | -               | 14/266,548        | US | UTL | MULTIPLE APPLICATIONS AND USER DEVICES   | 4/30/2014 -  |
| - | 105207887 A     | 201510505924      | CN | UTL | Modular Search Object Framework  | 4/30/2014 -  |
| - | -               | 15166037 EP       | EP | UTL | Media Event Structure and Context Identification Using Short Messages              | 2/22/2011 -  |
| - | -               | 104110404 TW      | TW | UTL | Enhanced Search Results Associated With A Modular Search Object Framework          | 4/30/2015 -  |
| - | 2015-0317319 A1 | 14/266,618        | US | UTL | Enhanced Search Results Associated With A Modular Search Object Framework          | 3/31/2015 -  |
| - | -               | -                 | -  | -   | Modular Search Object Framework  | 4/30/2014 -  |

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|---|-----------------|-------------------|----|-----|--|--------------|
| - | 2015-0317945 A1 | 14/266,479        | US | UTL | Systems And Methods For Generating Tinted Glass Effect For Interface Controls And Elements Selectively Adding Social Dimension To Web Searches | 4/30/2014 -  |
| - | 105243104 A     | 201510603795.X    | CN | UTL | Intent Based Search Results Associated With A Modular Search Object Framework  | 4/20/2011 -  |
| - | -               | 15166064 EP       | EP | UTL | Intent Based Search Results Associated With A Modular Search Object Framework  | 4/30/2015 -  |
| - | -               | 104108918 TW      | TW | UTL | Intent Based Search Results Associated With A Modular Search Object Framework  | 3/20/2015 -  |
| - | 2015-0317354 A1 | 14/266,565        | US | UTL | Method and/or Apparatus for Generating Signal Processing Pipelines   | 4/30/2014 -  |
| - | -               | 14/654,468        | US | UTL | Method and/or Apparatus for Generating Signal Processing Pipelines   | 6/19/2015 -  |
| - | -               | PCT/CN2014/095912 | WO | UTL | Dynamic Action Selection for Touch Screens   | 12/31/2014 - |
| - | -               | 14/327,573        | US | UTL | METHOD AND SYSTEM FOR ENHANCED SEARCH TERM SUGGESTION  | 7/10/2014 -  |
| - | -               | 14/575,445        | US | UTL | METHOD AND SYSTEM FOR INDEXING AND PROVIDING SUGGESTIONS   | 12/18/2014 - |
| - | -               | 14/569,292        | US | UTL | Character Input Using Modern Remote Control METHOD AND SYSTEM FOR PROVIDING A SEARCH RESULT  | 12/12/2014 - |
| - | -               | 14/511,684        | US | UTL |  | 10/10/2014 - |
| - | -               | 14/435,660        | US | UTL |  | 4/14/2015 -  |
| - | -               | PCT/CN2014/094122 | WO | UTL | Method and System for Providing a Search Result  | 12/17/2014 - |
| - | -               | 14/512,187        | US | UTL | Recommending Bidded Terms  | 10/10/2014 - |
| - | -               | 14/497,546        | US | UTL | Advertisement opportunity bidding  | 9/26/2014 -  |
| - | 2015-0339707 A1 | 14/284,639        | US | UTL | System and Method for Event Triggered Search Results   | 5/22/2014 -  |
| - | -               | 14/573,756        | US | UTL | GENERATING USER RECOMMENDATIONS METHOD AND SYSTEM TO DETECT USE CASES IN DOCUMENTS FOR PROVIDING STRUCTURED TEXT OBJECTS                       | 12/17/2014 - |
| - | -               | 14/572,339        | US | UTL | Systems and Methods For Tracking Brand Reputation and Market Share   | 12/16/2014 - |
| - | -               | 14/533,898        | US | UTL | Online Ad Campaign Tuning with PID Controllers   | 11/5/2014 -  |
| - | -               | 14/518,601        | US | UTL | System and method for Calibrating Bluetooth Low Energy Signal Strengths  | 10/20/2014 - |
| - | -               | 104122884 TW      | TW | UTL | System and Method for Detection of Indoor Tracking Units   | 7/15/2015 -  |
| - | -               | 104124692 TW      | TW | UTL | System and method for Calibrating Bluetooth Low Energy Signal Strengths  | 7/30/2015 -  |
| - | 2016-0020861 A1 | 14/333,056        | US | UTL | System and Method for Detection of Indoor Tracking Units   | 7/16/2014 -  |
| - | 2016-0021511 A1 | 14/462,756        | US | UTL | System and method for Calibrating Bluetooth Low Energy Signal Strengths  | 8/19/2014 -  |
| - | -               | PCT/US2015/040384 | WO | UTL |  | 7/14/2015 -  |

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|---|-----------------|-------------------|----|-----|---|--------------|
| - | -               | PCT/US15/42943    | WO | UTL | System and Method for Detection of Indoor Tracking Units                          | 7/30/2015 -  |
| - | -               | 14/532,831        | US | UTL | Systems and Methods For Managing Advertising Campaigns                            | 11/4/2014 -  |
| - | -               | 14/566,572        | US | UTL | Method for ranking social and search web traffic with virality scores             | 12/10/2014 - |
| - | 2016-0014060 A1 | 14/329,489        | US | UTL | Native Ad Format For Interest-Based Content                                       | 7/11/2014 -  |
| - | 2016-0048901 A1 | 14/462,483        | US | UTL | Subscriptions In Email  | 8/18/2014 -  |
| - | 2016-0027048 A1 | 14/389,213        | US | UTL | Content Suggestions   | 9/29/2014 -  |
| - | 2016/011859 A1  | PCT/CN2014/083023 | WO | UTL | Audience Recommendation   | 7/25/2014 -  |
| - | -               | 14/524,773        | US | UTL | Audience Recommendation   | 10/27/2014 - |
| - | -               | 14/573,183        | US | UTL | Adaptive Retargeting  | -            |
| - | -               | 14/584,082        | US | UTL | METHOD AND SYSTEM FOR CONCURRENCY CONTROL IN LOG-STRUCTURED MERGE DATA STORES     | 12/17/2014 - |
| - | -               | 14/539,324        | US | UTL | Techniques for reducing irrelevant ads  | 12/29/2014 - |
| - | -               | 14/586,671        | US | UTL | Geolocation safety awareness  | 11/12/2014 - |
| - | -               | 14/468,049        | US | UTL | CONTRACTING AND/OR DE-CONTRACTING STORED PARAMETERS                               | 12/30/2014 - |
| - | -               | 14/586,277        | US | UTL | Method and system for presenting content summary of search results                | 8/25/2014 -  |
| - | -               | 14/588,366        | US | UTL | METHOD AND SYSTEM FOR ENHANCED QUERY TERM SUGGESTION                              | 12/30/2014 - |
| - | -               | 14/534,118        | US | UTL | USER-QUALIFIED ADVERTISEMENT OFFER  | 12/31/2014 - |
| - | -               | 14/588,164        | US | UTL | Advertisement viewability determination   | 11/5/2014 -  |
| - | -               | 14/573,979        | US | UTL | Facilitating advertiser competition for providing competing advertisements        | 12/31/2014 - |
| - | -               | 14/574,221        | US | UTL | Pacing Control for Online Ad Campaigns  | 12/17/2014 - |
| - | -               | 14/576,129        | US | UTL | Enhance search assist system's freshness by extracting phrases from news articles | 12/17/2014 - |
| - | -               | 14/587,328        | US | UTL | Combined advertisements   | 12/18/2014 - |
| - | -               | 14/586,886        | US | UTL | Systems and Methods For Measuring Complex Online Strategy Effectiveness           | 12/31/2014 - |
| - | -               | 14/579,444        | US | UTL | Advertisement generator   | 12/30/2014 - |
| - | -               | 14/586,879        | US | UTL | System and Method for Improved Server Performance                                 | 12/22/2014 - |
| - | -               | 14/572,579        | US | UTL | Providing advertisements based upon recurring events                              | 12/30/2014 - |
| - | -               | 14/470,813        | US | UTL | METHOD AND SYSTEM FOR JOINT REPRESENTATIONS OF RELATED CONCEPTS                   | 12/16/2014 - |
| - | -               | 14/577,223        | US | UTL | Providing Information Associated with a Product                                   | 8/27/2014 -  |
| - | -               | 14/528,422        | US | UTL | Systems and Methods for Online Advertisement Realization Prediction               | 12/19/2014 - |
| - | -               | -                 | US | UTL | Systems And Methods For Native Advertisement Selection And Formatting             | 10/30/2014 - |

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|---|-----------------|-------------------|----|-----|---|--------------|
| - | 2015-0058141 A1 | 14/383,415        | US | UTL | Detection and Mitigation of On-line Advertisement Abuse                                   | 9/5/2014 -   |
| - | 2013/132423     | PCT/IB2013/051723 | WO | UTL | Detection and mitigation of on-line advertisement abuse                                   | 3/5/2013 -   |
| - | -               | 14/568,956        | US | UTL | User Authentication and Data Encryption   | 12/12/2014 - |
| - | -               | 14/530,558        | US | UTL | Web Crawling  | 10/31/2014 - |
| - | -               | 14/585,315        | US | UTL | Method and System for Entity Linking  | 12/30/2014 - |
| - | 2012-0310749 A1 | 12/902,066        | US | UTL | System and Method for Selecting Creatives Based on Visual Similarity and Campaign Metrics | 10/11/2010 - |
| - | -               | 13/151,110        | US | UTL | AD creative selection based on image context  | 6/1/2011 -   |
| - | -               | 14/519,858        | US | UTL | Coupon Provider   | 10/21/2014 - |
| - | -               | 14/509,741        | US | UTL | Online Product Testing Using Bucket Tests   | 10/8/2014 -  |
| - | -               | 14/574,033        | US | UTL | Viewable Impressions System   | 12/17/2014 - |
| - | -               | 14/586,540        | US | UTL | Method and/or System for Walking Route Recommendation                                     | 12/30/2014 - |
| - | -               | 14/587,282        | US | UTL | Systems and Methods For Building Keyword Searchable Audience Based on Performance Ranking | 12/31/2014 - |
| - | -               | PCT/CN2014/095607 | WO | UTL | Systems and Methods of Building Keyword Searchable Audience Based on Performance Ranking  | 12/30/2014 - |
| - | -               | 14/586,199        | US | UTL | Systems and Methods for Sponsored Search Ad Matching                                      | 12/30/2014 - |
| - | -               | 14/585,961        | US | UTL | Systems And Methods For Ad Campaign Optimization  | 12/30/2014 - |
| - | -               | PCT/CN2014/094474 | WO | UTL | Systems and Methods for AD Campaign Optimization  | 12/22/2014 - |
| - | -               | 14/572,036        | US | UTL | Personalized content based upon user perception of weather                                | 12/16/2014 - |
| - | -               | 14/580,614        | US | UTL | Ubiquitous Content Access and Management  | 12/23/2014 - |
| - | -               | PCT/US15/66437    | WO | UTL | Ubiquitous Content Access and Management  | 12/17/2015 - |
| - | -               | 14/583,457        | US | UTL | Enhanced Targeted Advertising System  | 12/26/2014 - |
| - | -               | 14/740,937        | US | UTL | Enhanced Online Content Delivery System Using Action Rate Lift                            | 6/16/2015 -  |
| - | -               | 14/584,401        | US | UTL | Native Advertisement Smart Injection  | 12/29/2014 - |
| - | -               | 14/437,271        | US | UTL | Method and system for providing relevant advertisements                                   | 4/21/2015 -  |
| - | -               | PCT/CN2015/075881 | WO | UTL | Method and system for providing relevant advertisements                                   | 4/3/2015 -   |
| - | -               | 14/631,773        | US | UTL | Providing Interactivity Options for Television Broadcast Content                          | 2/25/2015 -  |
| - | -               | 12/472,270        | US | UTL | Collection And Use Of Fine-Grained User Behavior Data                                     | 5/26/2009 -  |
| - | -               | 14/761,043        | US | UTL | Detecting Coalition Fraud in Online Advertising   | 7/15/2015 -  |

SCHEDULE OF ASSETS

|              |    |          |                   |    |     |   |            |            |
|--------------|----|----------|-------------------|----|-----|---|------------|------------|
| -            | -  | -        | 14/761,060        | US | UTL | Representing Entities Relationships in Online Advertising   | 7/15/2015  | -          |
| -            | -  | -        | PCT/CN2015/080220 | WO | UTL | Detecting Coalition Fraud in Online Advertising   | 5/29/2015  | -          |
| -            | -  | -        | PCT/CN2015/080214 | WO | UTL | Representing Entities Relationships in Online Advertising   | 5/29/2015  | -          |
| ZL02156145.1 | CN | 1428689A | 2156145           | CN | UTL | RECOMMENDING SEARCH TERMS USING COLLABORATIVE FILTERING AND WEB SPIDERING                               | 12/11/2002 | 12/31/2008 |
| -            | -  | -        | -                 | EP | UTL | Secure Service For Receiving Sensitive Information Through Nested I-Frames                              | -          | -          |
| -            | -  | -        | -                 | TW | UTL | Secure Service For Receiving Sensitive Information Through Nested I-Frames                              | -          | -          |
| -            | -  | -        | 62/136,430        | US | PRV | Secure Service for Receiving Payment Card Information from a Digital Vault through Nested I-Frames      | 3/20/2015  | -          |
| 9251372      | -  | -        | 14/794,733        | US | UTL | Secure Service For Receiving Sensitive Information Through Nested I-Frames                              | 7/8/2015   | 2/2/2016   |
| -            | -  | -        | 14/969,847        | US | UTL | Secure Service For Receiving Sensitive Information Through Nested I-Frames                              | 12/15/2015 | -          |
| -            | -  | -        | 14/713,811        | US | UTL | Collective Expansion of Bid-terms for Campaign Optimization   | 5/15/2015  | -          |
| -            | -  | -        | 14/631,152        | US | UTL | Managing Ad Campaigns Via Mobile Devices  | 2/25/2015  | -          |
| -            | -  | -        | -                 | TW | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | -          | -          |
| -            | -  | -        | 14/675,004        | US | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | 3/31/2015  | -          |
| -            | -  | -        | -                 | WO | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | -          | -          |
| -            | -  | -        | -                 | TW | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | -          | -          |
| -            | -  | -        | 14/674,997        | US | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | 3/31/2015  | -          |
| -            | -  | -        | -                 | WO | UTL | MEASURING USER ENGAGEMENT WITH SMART BILLBOARDS   | -          | -          |
| -            | -  | -        | 14/798,090        | US | UTL | Bidding Systems, and Methods For Minimizing The Cost Of Field Experiments Using Advertisement Exchanges | 7/13/2015  | -          |
| -            | -  | -        | 14/841,207        | US | UTL | Performance of Ad Campaigns Targeting Demographic Audiences Using Third Party Data                      | 8/31/2015  | -          |

PATENT

REEL: 054675 FRAME: 0179

RECORDED: 12/10/2020