

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6513482

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNOR NAME previously recorded on Reel 052853 Frame 0153. Assignor(s) hereby confirms the SECURITY INTEREST GRANTED PURSUANT TO THE PATENT SECURITY AGREEMENT PREVIOUSLY RECORDED.	
CONVEYING PARTY DATA		
Name		Execution Date
MONARCH NETWORKING SOLUTIONS LLC		06/04/2020
RECEIVING PARTY DATA		
Name:	STARBOARD VALUE INTERMEDIATE FUND LP, AS COLLATERAL AGENT	
Street Address:	777 THIRD AVENUE	
Internal Address:	18TH FLOOR	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10017	
PROPERTY NUMBERS Total: 50		
Property Type	Number	
Patent Number:	6635912	
Patent Number:	7334080	
Patent Number:	7581058	
Patent Number:	8432716	
Patent Number:	7342928	
Patent Number:	7764602	
Patent Number:	8516148	
Patent Number:	8321544	
Patent Number:	7765583	
Patent Number:	7978687	
Patent Number:	7852840	
Patent Number:	9100267	
Patent Number:	8000279	
Patent Number:	7869451	
Patent Number:	7965737	
Patent Number:	8214477	
Patent Number:	8576856	
PATENT		

Property Type	Number
Patent Number:	8427994
Patent Number:	8514843
Patent Number:	7953091
Patent Number:	8379511
Patent Number:	8218432
Patent Number:	8223629
Patent Number:	8964524
Patent Number:	8826296
Patent Number:	8824277
Patent Number:	7933204
Patent Number:	8155149
Patent Number:	8174965
Patent Number:	8130775
Patent Number:	8130765
Patent Number:	8522317
Patent Number:	8693369
Patent Number:	8804749
Patent Number:	8451844
Patent Number:	8451845
Patent Number:	8724451
Patent Number:	8797894
Patent Number:	9225752
Patent Number:	8811226
Patent Number:	8599680
Patent Number:	9191221
Patent Number:	8804498
Patent Number:	8923162
Patent Number:	9083631
Patent Number:	9160547
Patent Number:	9578551
Patent Number:	9019965
Patent Number:	9985880
Application Number:	15966162

CORRESPONDENCE DATA

Fax Number: (212)593-5955

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2127562132

Email: scott.kareff@srz.com
Correspondent Name: S. KAREFF C/O SCHULTE ROTH & ZABEL LLP
Address Line 1: 919 THIRD AVENUE
Address Line 2: 25TH FLOOR
Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER: 069902-0049

NAME OF SUBMITTER: SCOTT KAREFF (069902-0049)

SIGNATURE: /rr for sk/

DATE SIGNED: 01/25/2021

Total Attachments: 167

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PATENT SECURITY AGREEMENT

WHEREAS, each Grantor (as defined in the Security Agreement) that is party hereto (each, a “Grantor” and collectively, the “Grantors”) holds all right, title and interest in the letter patents, design patents and utility patents, and all applications therefor, listed on the annexed Schedule 1A, as applicable, which patents are issued or applied for in the United States Patent and Trademark Office (the “Patents”);

WHEREAS, each Grantor has entered into a Pledge and Security Agreement, dated as of June 4, 2020 (as amended, restated or otherwise modified from time to time the “Security Agreement”), in favor of Starboard Value Intermediate Fund LP, as collateral agent for certain buyers (the “Grantee”);

WHEREAS, pursuant to the Security Agreement, each Grantor has granted to the Grantee for the benefit of the Buyers (as defined in the Security Agreement) a continuing security interest in all right, title and interest of such Grantor in, to and under the Patents, including, without limitation, all applications, registrations and recordings thereof, as applicable, and all proceeds thereof, including, without limitation, any and all causes of action which may exist by reason of infringement, misappropriation or other violation thereof and any and all damages arising from past, present and future infringements, misappropriations or other violations thereof (the “Collateral”), to secure the payment, performance and observance of the “Secured Obligations” (as defined in the Security Agreement);

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor does hereby pledge, convey, and set over unto the Grantee and grants to the Grantee for the benefit of the Buyers a continuing security interest in the Collateral. Other than as permitted upon the occurrence and during the continuance of an Event of Default (as defined in the Security Agreement), nothing in this Patent Security Agreement or the Security Agreement assigns or transfers to Grantee any control or ownership interest in any of the Collateral, and such Grantor retains any and all such rights.

Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Grantee with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of a conflict between any provision of this Patent Security Agreement and the Security Agreement, the terms of the Security Agreement shall govern.

IN WITNESS WHEREOF, each Grantor has caused this Patent Security Agreement to be duly executed by its officer thereunto duly authorized as of June 4, 2020.

ACACIA RESEARCH GROUP LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

AMERICAN VEHICULAR SCIENCES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

BONUTTI SKELETAL INNOVATIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

**CELLULAR COMMUNICATIONS EQUIPMENT
LLC**



By: _____

Name: Marc Booth

Title: Chief Executive Officer

INNOVATIVE DISPLAY TECHNOLOGIES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

LIFEPORT SCIENCES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

LIMESTONE MEMORY SYSTEMS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

MERTON ACQUISITION HOLDCO LLC

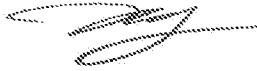


By: _____

Name: Marc Booth

Title: Chief Executive Officer

MOBILE ENHANCEMENT SOLUTIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

MONARCH NETWORKING SOLUTIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

NEXUS DISPLAY TECHNOLOGIES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

**PARTHENON UNIFIED MEMORY
ARCHITECTURE LLC**



By: _____

Name: Marc Booth

Title: Chief Executive Officer

R2 SOLUTIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

SAINT LAWRENCE COMMUNICATIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

STINGRAY IP SOLUTIONS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

SUPER INTERCONNECT TECHNOLOGIES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

TELECONFERENCE SYSTEMS LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

UNIFICATION TECHNOLOGIES LLC



By: _____

Name: Marc Booth

Title: Chief Executive Officer

SCHEDULE 1A TO PATENT SECURITY AGREEMENT

(see attached)

US Assets

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	ACACIA RESEARCH GROUP LLC			
United States	METHOD AND APPARATUS FOR COLLECTING AND EXPRESSING GEOGRAPHICALLY-REFERENCED DATA	6372142	2000-10-31	2004-08-03
United States	METHOD AND SYSTEM FOR A WIRELESS DIGITAL MESSAGE SERVICE	6349135	1998-09-01	2002-02-19
United States	AUTOMATED SECURITY AND REORDER SYSTEM FOR TRANSPORTER TAGGED ITEMS	6080800	2001-02-16	2006-01-17
United States	INDIVIDUAL ADJUSTMENT OF PIT AND LAND TRANSITION LOCATIONS IN AN OPTICAL DISC MASTERING PROCESS	6469969	2001-08-21	2002-10-22
United States	VARYING THE RATE AT WHICH DATA APPEAR ON AN OPTICAL DISC ROTATED AT A CONSTANT LINEAR VELOCITY TO PREVENT UNAUTHORIZED DUPLICATION OF THE DISC	6477124	2001-05-18	2002-11-05
United States	COPY PROTECTION THROUGH SYMBOL SUBSTITUTION AND INDUCED ERRORS	6715122	2001-02-23	2004-03-30
United States	HIDING DIGITAL DATA IN A DIGITAL AUDIO OR VIDEO CARRIER SIGNAL	6768709	2001-02-23	2004-07-27
United States	METHOD OF MAKING A VERTICAL INTEGRATED CIRCUIT	5766984	1995-09-22	1998-06-16
United States	WIRING METHOD FOR PRODUCING A VERTICAL INTEGRATED CIRCUIT STRUCTURE AND VERTICAL INTEGRATED CIRCUIT STRUCTURE	6448174	2000-10-05	2002-09-10
United States	METHOD OF VERTICALLY INTEGRATING ELECTRIC COMPONENTS BY MEANS OF BACK CONTACTING	6548391	2002-03-18	2003-04-15
United States	METHOD FOR PRODUCING THREE-DIMENSIONAL CIRCUITS	6664132	2001-11-29	2003-12-16
United States	ELECTROMAGNETICALLY SHIELDED HEARING AIDS	6631923	1997-04-07	2000-02-29
United States	HAND-HELD CONTROL DEVICE WITH DUAL-MODE JOYSTICK FOR POINTING AND SCROLLING	7476982	2004-05-11	2007-02-13
United States	INTEGRATED GPS/INTERFERENCE LOCATION SYSTEM	5936571	1997-01-31	1999-08-10
United States	DEFINING A UNIFORM SUBJECT CLASSIFICATION SYSTEM INCORPORATING DOCUMENT MANAGEMENT/RECORDS RETENTION FUNCTIONS	6185576	1998-10-21	2001-02-06
United States	METHOD AND SYSTEM FOR ACQUIRING-BRANDED PROMOTIONAL PRODUCTS	7127415	1999-11-16	2006-10-24
United States	INDUCTANCE-REDUCED WIRE-BONDING-TYPE SEMICONDUCTOR DEVICE	5798571	1996-07-02	1998-08-25
United States	VOLTAGE-BOOSTER CIRCUIT	5812018	1997-01-13	1998-09-22
United States	BRIDGE CIRCUITRY COMPRISING SERIES CONNECTION OF VERTICAL AND LATERAL MOSFETS	5818282	1997-02-07	1998-10-06

DOC ID - 341210722

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	SEMICONDUCTOR STORAGE DEVICE	50318773	1997-08-29	1998-10-06
United States	HIGH-VOLTAGE GENERATING CIRCUIT ABLE TO GENERATE POSITIVE-HIGH VOLTAGE AND NEGATIVE-HIGH VOLTAGE AT THE SAME TIME	5031844	1997-08-13	1998-11-03
United States	DIFFERENTIAL AMPLIFIER	5047598	1997-05-14	1998-12-08
United States	OUTPUT CIRCUIT WITH OVERVOLTAGE PROTECTION	5064245	1996-10-15	1999-01-26
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	5049699	1998-06-25	1999-09-07
United States	SEMICONDUCTOR DEVICE INCORPORATING A STEPPED CONTACT HOLE	5052724	1997-06-19	1999-09-14
United States	SENSE AMPLIFIER CIRCUIT HAVING HIGH-SPEED OPERATION	5099470	1997-07-22	1999-12-07
United States	SEMICONDUCTOR DEVICE WITH CONDUCTIVE PLUGS	6004839	1997-02-20	1999-12-21
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH DUMMY PATTERN FOR EQUALIZING THICKNESS OF INTER-LEVEL INSULATING STRUCTURE	6023099	1997-12-22	2000-02-08
United States	SEMICONDUCTOR INTEGRATED CIRCUIT MEMORY	6023442	1997-08-11	2000-02-08
United States	DIFFERENTIAL AMPLIFIER WITH INPUT SIGNAL DETERMINED STANDBY STATES	6028458	1998-01-22	2000-02-22
United States	VARIABLE-CURRENT SOURCE WITH DEVIATION COMPENSATION	6031366	1998-08-19	2000-02-29
United States	SEMICONDUCTOR DEVICE ASSEMBLY METHOD AND SEMICONDUCTOR DEVICE PRODUCED BY THE METHOD	6046077	1998-12-30	2000-04-04
United States	OUTPUT CIRCUIT FREE FROM OVERSHOOT AND UNDERSHOOT ON SIGNAL LINES ALTERNATELY DRIVEN IN POSITIVE POTENTIAL RANGE AND NEGATIVE POTENTIAL RANGE	6046633	1998-12-21	2000-04-04
United States	FABRICATION METHOD OF SEMICONDUCTOR DEVICE USING CMP PROCESS	6096632	1998-04-10	2000-08-01
United States	INPUT CIRCUIT HAVING CURRENT CONTROL	6121792	1998-09-25	2000-09-19
United States	SOL-MOS FIELD EFFECT TRANSISTOR THAT WITHDRAWS EXCESS CARRIER THROUGH A CARRIER PATH SILICON LAYER	6124613	1998-05-04	2000-09-26
United States	SEMICONDUCTOR MEMORY DEVICE	6130846	1999-02-05	2000-10-10
United States	BOOSTING CIRCUIT USING 2-STEP BOOSTING OPERATION	6137733	1999-10-04	2000-10-24
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE HAVING MULTILAYER WIRING	6140225	1998-06-25	2000-10-31
United States	BOOSTING CIRCUIT WITH BOOSTED VOLTAGE LIMITED	6141262	1999-04-07	2000-10-31
United States	SYNCHRONOUS-BUFFER CIRCUIT AND DATA TRANSMISSION CIRCUIT HAVING THE SYNCHRONOUS-BUFFER CIRCUIT	6172539	1999-05-28	2001-01-09

US Assets

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	POWER-ON CIRCUIT BUILT IN IC	63108319	1999-11-26	2001-03-06
United States	EMBEDDED LOGIC HAVING A FERAM SECTION AND A LOGIC CIRCUIT SECTION	6318197	2000-06-29	2001-04-17
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE HAVING MULTILAYER WIRING	6325217	1999-11-12	2001-05-01
United States	STATIC-RANDOM-ACCESS MEMORY (SRAM) CIRCUIT	6359623	2000-06-16	2001-07-10
United States	PROGRAM-COMPLETE SYSTEM AND ITS COMPILE METHOD FOR EFFICIENTLY COMPILE A SOURCE PROGRAM INCLUDING AN INDIRECT CALL FOR A PROCEDURE	6329240	1999-01-26	2001-09-18
United States	CAPACITOR HAVING FIRST AND SECOND PROTECTIVE FILMS	63295195	1999-12-28	2001-09-25
United States	COMPILING METHOD FOR GENERATING TARGET PROGRAM IN ACCORDANCE WITH TARGET PROCESSOR TYPE, COMPILING DEVICE, RECORDING MEDIUM WITH COMPILING PROGRAM RECORDED THEREIN AND RECORDING MEDIUM WITH CONVERSION TABLE USED IN COMPILING RECORDED THEREIN	6305013	1999-04-01	2001-10-16
United States	BOOSTING CIRCUIT	6341077	2000-10-31	2002-01-22
United States	INPUT CIRCUIT, OUTPUT CIRCUIT, AND INPUT/OUTPUT CIRCUIT AND SIGNAL TRANSMISSION SYSTEM USING THE SAME INPUT/OUTPUT CIRCUIT	6366126	1999-12-10	2002-04-02
United States	FAN FILTER UNIT FOR CLEANROOM	6368393	2000-07-13	2002-04-09
United States	FERROELECTRIC MEMORY INCLUDING FERROELECTRIC CAPACITOR, ONE OF WHOSE ELECTRODES IS CONNECTED TO METAL SHEATH FILM	6384440	2000-11-02	2002-05-07
United States	NON-VOLATILE SEMICONDUCTOR DEVICE AND NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE FOR STORING MULTI-VALUE INFORMATION	6441425	2000-10-10	2002-08-27
United States	SEMICONDUCTOR STORAGE DEVICE DATA SENSING METHOD AND APPARATUS	6442081	2001-04-25	2002-08-27
United States	COPPER WIRING STRUCTURE COMPRISING A COPPER MATERIAL BURIED IN A HOLLOW OF AN INSULATING FILM AND A CARBON LAYER BETWEEN THE HOLLOW AND THE COPPER MATERIAL IN SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	6486559	1998-06-25	2002-11-26
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING SAME	6549950	2000-06-27	2005-02-01
United States	SEMICONDUCTOR DEVICE AND A METHOD OF MANUFACTURING THE SAME	6060765	1998-07-08	2000-05-09

DOC ID : 341210722

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING TREATMENT OF GAS USED IN THE PROCESS	6066508	1998-06-03	2000-05-23
United States	METHOD OF FABRICATING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING AN INTERLEVEL DIELECTRIC LAYER WITH VOIDS BETWEEN NARROWLY SPACED WIRING LINES	6162723	1998-12-14	2000-12-19
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	6194758	1998-06-11	2001-02-27
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND METHOD OF MANUFACTURING SAME	6255151	1998-12-11	2001-07-03
United States	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE	6300206	2000-03-03	2001-10-09
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING TREATMENT OF GAS USED IN THE PROCESS	6319860	2000-04-18	2001-11-20
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6423992	2001-05-15	2002-07-23
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING TREATMENT OF GAS USED IN THE PROCESS	6521550	2001-10-19	2003-02-18
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	6545326	2001-07-24	2003-04-08
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING TREATMENT OF GAS USED IN THE PROCESS	6602808	2001-12-13	2003-08-05
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	6610564	2001-07-24	2003-08-26
United States	SEMICONDUCTOR DEVICE MANUFACTURING METHOD AND SEMICONDUCTOR DEVICE	6924192	2003-10-31	2005-08-02
United States	SEMICONDUCTOR DEVICE COMPRISING A HIGHLY RELIABLE, CONSTANT CAPACITANCE CAPACITOR	6940116	2001-01-10	2005-09-06
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7118983	2005-06-30	2006-10-10
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	7439132	2006-01-23	2008-10-21
United States	SEMICONDUCTOR DEVICE MANUFACTURING METHOD AND SEMICONDUCTOR DEVICE	7439569	2006-06-20	2008-10-21
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	8471321	2010-09-13	2013-06-25
United States	SRAM WITH STACKED CAPACITOR SPACED FROM GATE ELECTRODES	5780910	1996-07-17	1998-07-14
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6630865	1998-04-28	2000-02-29

US Assets

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	63471892	1998-02-18	2001-01-09
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6245611	1999-11-05	2001-06-12
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING CAPACITOR ELEMENT	6396111	2001-04-17	2002-05-28
United States	SEMICONDUCTOR DEVICE WITH SHIELD LAYERS AND METHOD OF FORMING THE SAME	6399485	2000-07-28	2002-06-04
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING CAPACITOR ELEMENT	6476453	2001-12-03	2002-11-05
United States	MEMORY SYSTEM ALLOWING FAST OPERATION OF PROCESSOR WHILE USING FLASH MEMORY INCAPABLE OF RANDOM ACCESS	6310444	2003-02-25	2004-10-26
United States	SEMICONDUCTOR DEVICE WITH SEAL RING	7405448	2005-09-08	2009-10-20
United States	SEMICONDUCTOR DEVICE	7884031	2009-06-15	2011-02-08
United States	SEMICONDUCTOR CHIP WITH SEAL RING AND SACRIFICIAL CORNER PATTERN	8018030	2009-03-24	2011-09-13
United States	SEMICONDUCTOR CHIP WITH SEAL RING AND SACRIFICIAL CORNER PATTERN	8863291	2011-05-20	2015-02-24
United States	SEMICONDUCTOR CHIP WITH SEAL RING AND SACRIFICIAL CORNER PATTERN	9368459	2014-12-23	2016-06-14
United States	Method And Nonvolatile Semiconductor Memory For Repairing Over-Erased Cells	5844847	1996-12-06	1998-12-01
United States	Semiconductor Device Capable Of Operating Stably With Reduced Power Consumption	6046627	1998-02-20	2000-04-04
United States	High-Speed Semiconductor Memory Apparatus Including Circuitry To Increase Writing And Reading Speed	6091629	1997-08-06	2000-07-18
United States	Non-Volatile Semiconductor Memory Device For Selective Cell Flash Erasing/Programming	6111792	1999-03-15	2000-08-29
United States	Information Processing Apparatus Having A Bus Using The Protocol Of The Acknowledge Type In The Source Clock Synchronous System	6539444	1999-09-03	2003-03-25
United States	Semiconductor Memory Apparatus, Semiconductor Apparatus, Data Processing Apparatus And Computer System	6665209	2002-12-17	2003-12-16
United States	Information Processing Apparatus	6665807	1999-09-03	2003-12-16

US Assets

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Semiconductor-Memory Apparatus, Semiconductor Apparatus, Data Processing Apparatus And Computer System	60309268	2003-10-17	2005-01-04
United States	Semiconductor Device	7560975	2007-01-05	2009-07-14
United States	SEMICONDUCTOR-DEVICE WITH AN ACTIVE-REGION AND PLURAL DUMMY-REGIONS	6693315	2001-11-02	2004-02-17
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	7071560	2003-12-31	2006-07-04
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	7411302	2006-05-10	2008-08-12
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	7589423	2007-05-24	2009-09-15
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	7687914	2007-10-30	2010-03-30
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	7948086	2010-03-01	2011-05-24
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR-DEVICE HAVING AN ACTIVE-REGION AND DUMMY PATTERNS	8119495	2011-04-28	2012-02-21
United States	SEMICONDUCTOR-DEVICE HAVING ACTIVE-REGION AND DUMMY WIRINGS	8426969	2012-01-31	2013-04-23
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	8604505	2013-04-08	2013-12-10
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR-DEVICE INCLUDING DUMMY-REGIONS AND DUMMY WIRINGS	9064926	2013-12-09	2015-06-23
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME AND DESIGNING THE SAME	9337147	2015-06-19	2016-05-10
United States	Intermediate potential generating circuit	5869997	1997-01-08	1999-02-09
United States	Speech recognition system	5099665	1997-05-29	1999-06-01
United States	Semiconductor integrated circuit	5014905	1997-11-04	1999-06-22
United States	Chopper comparator showing high speed and low power operations free of malfunction under variation of logical threshold voltage of inverter	5559469	1997-09-22	1999-09-28
United States	Amplifier circuit of latch type which is used for semiconductor memory device	5082689	1997-11-03	1999-11-09
United States	Image data storing method and image data storing device	6020902	1998-03-04	2000-02-01

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United States	Input buffer circuit for semiconductor IC circuit	60912277	1999-01-19	2000-07-18
United States	Semiconductor integrated circuit having control output resistance of an output buffer circuit	6094069	1998-07-20	2000-07-25
United States	Operational amplifier having a wide input/output range and an improved slew rate	6100762	1998-09-03	2000-08-08
United States	System including a ferroelectric memory	6131177	1997-09-18	2000-10-10
United States	Semiconductor integrated circuit device	6151256	1999-10-20	2000-11-21
United States	Charge pump circuit for phase-locked loop free from spike current	6163187	1999-07-19	2000-12-19
United States	Pulse generator with improved high speed performance for generating a control pulse width	6198327	1999-03-15	2001-03-06
United States	Semiconductor chip having a low noise ground line	6201308	1998-09-15	2001-03-13
United States	Variable-frequency oscillator and phase-locked loop and clock synchronizer using thereof	6215364	1999-04-09	2001-04-10
United States	Semiconductor integrated circuit device	6243279	1998-09-16	2001-06-05
United States	Semiconductor integrated circuit device	6252788	1999-10-20	2001-06-26
United States	System including a ferroelectric memory	6321360	2000-05-26	2001-11-20
United States	Data processor having a unified memory architecture providing priority memory access	6333745	1997-09-29	2001-12-25
United States	Semiconductor integrated circuit	6337593	2000-01-27	2002-01-08
United States	Semiconductor chip having a low noise ground line	6376920	2000-09-27	2002-04-23
United States	Semiconductor integrated circuit	6483374	2000-06-23	2002-11-19
United States	Variable-frequency oscillator and phase-locked loop and clock synchronizer using thereof	6535070	2001-01-05	2003-03-18
United States	Semiconductor integrated circuit	6600360	2002-09-20	2003-07-29
United States	On-chip microcomputer capable of internally producing ECC data	6604214	1999-04-06	2003-08-05
United States	Semiconductor integrated circuit	6707334	2003-05-22	2004-03-16
United States	Processor for controlling substrate biases in accordance to the operation modes of the processor	6715090	1999-05-20	2004-03-30
United States	Mixer processes	6789207	2000-12-18	2004-09-07
United States	Semiconductor integrated circuit	6887415	2004-01-29	2006-01-17
United States	Semiconductor integrated circuit	7046075	2005-06-06	2006-05-16

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United States	Semiconductor-integrated-circuit	7321252	2006-04-04	2008-01-22
United States	Data processor having unified memory architecture using register to optimize memory access	7333116	2005-07-18	2008-02-19
United States	Substrate-bias-switching-unit-for-a-low-power-processor	7475261	2004-02-02	2009-01-06
United States	Substrate-bias-switching-unit-for-a-low-power-processor	8364988	2011-05-05	2013-01-29
United States	METHOD OF FABRICATING ELECTROSTATIC DISCHARGE DEVICE	5385722	1997-08-13	1999-11-16
United States	STATIC-RAM-HAVING CELL TRANSISTORS WITH LONGER-GATE ELECTRODES THAN TRANSISTORS IN THE PERIPHERY OF THE CELL	6043540	1997-09-29	2000-03-28
United States	SEMICONDUCTOR DEVICE	6064089	1997-07-25	2000-05-16
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE	6096641	1999-06-04	2000-08-01
United States	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	6100591	1999-05-18	2000-08-08
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6121086	1999-06-14	2000-09-19
United States	LEAD-ON CHIP SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	6137159	1999-02-26	2000-10-24
United States	SEMICONDUCTOR DEVICE	6150727	1996-09-16	2000-11-21
United States	SEMICONDUCTOR DEVICE WITH IMPROVED PLAINARITY AND REDUCED PARASITIC CAPACITANCE	6153918	1998-08-21	2000-11-28
United States	SEMICONDUCTOR INTEGRATED CIRCUIT WITH REDUCED DEVICE AND INTERCONNECTION AREAS	6157249	1999-06-28	2000-12-05
United States	METHOD OF ETCHING TO FORM HIGH-TOLERANCE POLYSILICON RESISTORS	6180479	1999-04-30	2001-01-30
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICES	6204184	1999-03-26	2001-03-20
United States	MEMORY CIRCUIT/LOGIC CIRCUIT INTEGRATED DEVICE CAPABLE OF REDUCING TERM OF WORKS	6208547	1999-07-21	2001-03-27
United States	REDUNDANCY-FUSE-BLOCK-HAVING A SMALL OCCUPIED AREA	6215173	1999-11-12	2001-04-10
United States	SEMICONDUCTOR DEVICE, AND MANUFACTURING METHOD THEREFOR	6228755	1999-03-12	2001-05-08
United States	METHOD OF MANUFACTURING MISFET	6235564	2000-01-20	2001-05-22
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	6309958	1999-09-08	2001-10-30
United States	METHOD OF FABRICATING A SEMICONDUCTOR DEVICE	6309960	2000-03-22	2001-10-30
United States	ELECTRODE STRUCTURE OF SEMICONDUCTOR ELEMENT	6313540	1999-12-22	2001-11-06

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United States	SEMICONDUCTOR DEVICE HAVING CAPACITIVE ELEMENT STRUCTURE AND MULTILEVEL INTERCONNECTION STRUCTURE AND METHOD OF FABRICATING THE SAME	6316801	1999-03-04	2001-11-13
United States	SEMICONDUCTOR DEVICE INTERCONNECTION STRUCTURE	6316836	1999-05-26	2001-11-13
United States	METHOD OF FABRICATING A LEAD-ON CHIP (LOG) SEMICONDUCTOR DEVICE	6335227	2000-10-18	2002-01-01
United States	MEMORY CIRCUIT/LOGIC CIRCUIT INTEGRATED DEVICE CAPABLE OF REDUCING TERM-OF-WORKS	6335875	2001-01-26	2002-01-01
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE	6344388	1999-06-04	2002-02-05
United States	MULTILAYERED SEMICONDUCTOR DEVICE	6369446	1999-11-15	2002-04-09
United States	PHOTOELECTRIC CONVERSION DEVICE AND METHOD OF MANUFACTURING THE SAME	6407417	2000-06-14	2002-06-18
United States	SEMICONDUCTOR DEVICE HAVING GATE INSULATING LAYERS DIFFERENT IN THICKNESS AND MATERIAL AND PROCESS FOR FABRICATION THEREOF	6475862	2000-08-10	2002-11-05
United States	MEMORY CIRCUIT/LOGIC CIRCUIT INTEGRATED DEVICE CAPABLE OF REDUCING TERM-OF-WORKS	6477075	2001-12-06	2002-11-05
United States	METHOD OF ARRANGING EXPOSED AREAS INCLUDING A LIMITED NUMBER OF TEST ELEMENT GROUP (TEG) REGIONS ON A SEMICONDUCTOR WAFER	6492189	2000-10-26	2002-12-10
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICES	6498100	2001-11-30	2002-12-24
United States	SEMICONDUCTOR DEVICE AND A MANUFACTURING PROCESS THEREFOR	6514853	2000-06-13	2003-02-04
United States	METHOD OF MANUFACTURING A PACKAGED SEMICONDUCTOR DEVICE, AND A SEMICONDUCTOR DEVICE MANUFACTURED THEREBY	6544814	2000-01-31	2003-04-08
United States	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF	6548900	1999-10-21	2003-04-15
United States	SEMICONDUCTOR DEVICE WITH DUMMY PATTERNS	6563148	2001-04-10	2003-05-13
United States	METHOD OF MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING SILICIDE LAYERS	6569742	1999-12-23	2003-05-27
United States	METHOD OF MANUFACTURING AN EEPROM DEVICE	6576512	2002-09-23	2003-06-10
United States	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF	6580113	1999-06-28	2003-06-17
United States	SOLID-STATE IMAGING DEVICE AND METHOD FOR FABRICATING SAME	6603144	2000-12-08	2003-08-05
United States	SEMICONDUCTOR DEVICE HAVING CAPACITIVE ELEMENT STRUCTURE AND MULTILEVEL INTERCONNECTION STRUCTURE AND METHOD OF FABRICATING THE SAME	6603203	2001-07-12	2003-08-05

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United States	SEMICONDUCTOR DEVICE WITH A PARTICULAR CONDUCTOR ARRANGEMENT	6639288	2000-06-19	2003-10-28
United States	SEMICONDUCTOR DEVICE AND MOUNTED SEMICONDUCTOR DEVICE STRUCTURE	6639315	2001-08-10	2003-10-28
United States	COPPER INTERCONNECTION	6670639	2001-12-11	2003-12-30
United States	MULTILAYERED SEMICONDUCTOR DEVICE	6713872	2002-04-03	2004-03-30
United States	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	6740584	1997-09-23	2004-05-25
United States	SEMICONDUCTOR DEVICE WITH A FIRST DUMMY PATTERN	6753246	2003-04-22	2004-06-22
United States	SEMICONDUCTOR PRODUCT WAFER HAVING VERTICALLY AND HORIZONTALLY ARRANGED PATTERNED AREAS INCLUDING A LIMITED NUMBER OF TEST ELEMENT GROUP REGIONS	6762433	2002-09-19	2004-07-13
United States	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF	6791134	2002-07-26	2004-09-14
United States	SEMICONDUCTOR MEMORY DEVICE	6791200	2002-12-19	2004-09-14
United States	SEMICONDUCTOR MEMORY DEVICE HAVING LARGE STORAGE CAPACITY AND MINIMAL STEP HEIGHT BETWEEN MEMORY CELL AND PERIPHERAL CIRCUITS	6798005	2002-07-29	2004-09-28
United States	SEMICONDUCTOR DEVICE, DESIGNING METHOD AND DESIGNING DEVICE THEREOF	6838770	2001-06-27	2005-01-04
United States	SEMICONDUCTOR WAFER SURFACE AND METHOD OF TREATING A SEMICONDUCTOR WAFER SURFACE	6897150	2000-11-20	2005-05-24
United States	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME	6900539	2002-10-17	2005-05-31
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING A GATE ELECTRODE HAVING A SLICIDE LAYER THEREON	6908837	2002-09-23	2005-06-21
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	7166893	2002-09-23	2007-01-23
United States	MANUFACTURING METHOD FOR ELECTRONIC DEVICES	7077158	2010-07-08	2011-07-12
United States	SEMICONDUCTOR DEVICE AND DUMMY PATTERN ARRANGEMENT METHOD	8072078	2009-12-07	2011-12-06
United States	MANUFACTURING METHOD FOR ELECTRONIC DEVICES	8278143	2011-06-22	2012-10-02
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6535056	2001-06-06	2003-03-18
United States	MICROPROCESSOR INTERNALLY PROVIDED WITH TEST CIRCUIT	6816983	2001-02-20	2004-11-09

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United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	6041420	2003-09-11	2005-01-11
United States	MICROCOMPUTER AND MICROCOMPUTER SYSTEM	6007514	2004-07-12	2005-06-14
United States	SEMICONDUCTOR DEVICE WITH CONTACTING ELECTRODES	6019646	2003-03-11	2005-07-19
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6070036	2004-06-04	2005-11-29
United States	SOLID-STATE MEMORY DEVICE	7030918	2000-06-27	2006-04-18
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	7161414	2005-11-03	2007-01-09
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	7352236	2006-12-13	2008-04-01
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	7696813	2008-02-04	2010-04-13
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	7830204	2010-02-26	2010-11-09
United States	SEMICONDUCTOR DEVICE AND METHOD FOR CUTTING ELECTRIC FUSE	7989913	2007-05-11	2011-08-02
United States	SEMICONDUCTOR DEVICE	8073643	2008-05-18	2011-12-06
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	8258589	2011-02-09	2012-09-04
United States	SEMICONDUCTOR DEVICE	8304905	2011-07-27	2012-11-06
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	8372709	2012-08-14	2013-02-12
United States	METHOD FOR CUTTING AN ELECTRIC FUSE	8372730	2011-06-23	2013-02-12
United States		6348405	2000-01-25	2002-02-19
United States		6356480	2000-06-07	2002-03-12
United States		6399399	2001-04-25	2002-06-04
United States		6466484	2002-01-28	2002-10-15
United States		6545934	2001-04-24	2003-04-08
United States		6567315	2001-12-12	2003-05-20
United States		6586807	2001-02-01	2003-07-01
United States		6603692	2001-06-13	2003-08-05
United States		6635912	2001-09-07	2003-10-21
United States		6717434	2001-09-27	2004-04-06
United States		6744684	2001-02-07	2004-06-01
United States		6751144	2002-05-29	2004-06-15

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United States		6791984	2002-12-23	2004-09-14
United States		6853582	2002-12-23	2005-02-08
United States		7130218	2005-01-25	2006-10-31
United States		7317640	2006-08-15	2008-01-08
United States		8017943	2007-07-12	2011-09-13
United States		8116395	2008-10-16	2012-02-14
United States		6785852	2001-07-26	2004-08-31
United States		6785858	2001-02-01	2004-08-31
United States		6791877	2002-06-10	2004-09-14
United States		6798696	2003-02-12	2004-09-28
United States		6807101	2002-12-23	2004-10-19
United States		6952368	2004-06-07	2005-10-04
United States		7068562	2005-06-13	2006-06-27
United States		7280426	2006-05-24	2007-10-09
United States		7334080	2005-05-03	2008-03-19
United States		7554830	2007-05-08	2009-06-30
United States		7581058	2007-12-24	2009-08-25
United States		7872895	2009-05-21	2011-01-18
United States		8432716	2010-12-06	2013-04-30
United States	POWER-ON-RESET-SIGNAL-GENERATOR-FOR-SEMICONDUCTOR-DEVICE	5936443	1996-07-03	1999-08-10
United States	VARIABLE-DELAY-CIRCUIT-FOR-VARYING-DELAY-TIME-AND-PULSE-WIDTH	5949268	1997-08-15	1999-09-07
United States	SEMICONDUCTOR-DEVICE-OF-HIERARCHICAL-POWER-SOURCE-STRUCTURE	6107700	1998-11-13	2000-08-22
United States	SEMICONDUCTOR-DEVICE	6944078	2004-07-16	2005-09-13
United States	SEMICONDUCTOR-DEVICE-AND-MANUFACTURING-PROCESS-THEREOF	5719426	1996-11-07	1998-02-17
United States	SEMICONDUCTOR-INTEGRATED-CIRCUIT	5892276	1997-04-17	1999-04-06
United States	SEMICONDUCTOR-DEVICE-HAVING-A-FLOATING-NODE-THAT-CAN MAINTAIN-A-PREDETERMINED-POTENTIAL-FOR-LONG-TIME, A SEMICONDUCTOR-MEMORY-DEVICE-HAVING-HIGH-DATA-MAINTENANCE PERFORMANCE, AND A METHOD-OF-MANUFACTURING-THEREOF	5893728	1996-10-16	1999-04-13

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United States	SEMICONDUCTOR DEVICE HAVING MISALIGNMENT RESISTIVE INTERCONNECT LAYERS	5920124	1997-05-23	1999-07-06
United States	METHOD OF MAKING TOTAL DIELECTRIC SEMICONDUCTOR DEVICE ISOLATION REGION	5933745	1997-10-08	1999-08-03
United States	SEMICONDUCTOR INTEGRATED CIRCUIT	5986294	1999-01-07	1999-11-16
United States	SEMICONDUCTOR MANUFACTURING DEVICE AND METHOD OF REMOVING PARTICLES THEREFROM	6024105	1998-02-06	2000-02-15
United States	SEMICONDUCTOR DEVICE HAVING A PORTION OF GATE ELECTRODE FORMED ON AN INSULATING SUBSTRATE	6064090	1996-06-27	2000-05-16
United States	METHOD DIRECTED TO THE MANUFACTURE OF AN SOL DEVICE	6271065	2000-01-31	2001-08-07
United States	SEMICONDUCTOR DEVICE	6362514	1999-07-13	2002-03-26
United States	THIN FILM SOL MOSFET	6410973	1999-06-24	2002-06-25
United States	COMPUTER IMPLEMENTED MARKETING SYSTEM	6236977	1999-01-04	2001-05-22
United States	DISPLAY APPARATUS WITH DIGITAL MICROMIRROR DEVICE	6348907	1995-01-31	2002-02-19
United States	METHOD FOR USING A SPATIAL LIGHT MODULATOR	6535187	1998-04-21	2003-03-18
United States	METHOD FOR INCREASING THE RESOLUTION OF A SPATIAL LIGHT MODULATOR	7184194	2004-12-20	2007-02-27
United States	ALIGNED WAFER BONDING	5236118	1992-05-12	1993-08-17
United States	METHOD AND APPARATUS FOR VALIDATING CREDIT INFORMATION DURING HOME DELIVERY OF ORDER	5208446	1991-09-19	1993-05-04
United States	METHOD AND APPARATUS FOR VALIDATING CREDIT INFORMATION DURING HOME DELIVERY OF ORDER	5334824	1993-03-30	1994-08-02
United States	RECYCLABLE, DIGITAL ONE TIME USE CAMERA	7126629	2001-09-07	2006-10-24
United States	METHOD OF MAKING A THREE DIMENSIONAL INTEGRATED CIRCUIT	5563084	1995-09-22	1996-10-08
United States	METHOD OF VERTICALLY INTEGRATING MICROELECTRONIC SYSTEMS	5951894	1996-05-03	1998-12-22
United States	METHOD OF MAKING A THREE DIMENSIONAL INTEGRATED CIRCUIT	5877034	1995-09-22	1999-03-02
United States	METHOD AND APPARATUS FOR DISPLAYING REAL TIME INFORMATION OBJECTS BETWEEN A WIRELESS MOBILE USER STATION AND MULTIPLE INFORMATION SOURCES BASED UPON EVENT DRIVEN PARAMETERS AND USER MODIFIABLE OBJECT MANIFEST	7289793	2002-12-03	2007-10-30
United States	ELECTROMAGNETICALLY SHIELDED HEARING AID	5640457	1995-11-13	1997-06-17
United States	ELECTROMAGNETICALLY PROTECTED HEARING AIDS	RE43519	2003-04-14	2012-07-17

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United States	FILE SHARED APPARATUS AND ITS METHOD FILE PROCESSING APPARATUS AND ITS METHOD RECORDING MEDIUM IN WHICH FILE SHARED PROGRAM IS RECORDED AND RECORDING MEDIUM IN WHICH FILE PROCESSING PROGRAM IS RECORDED	6409058	1999-09-09	2002-12-24
United States	SYSTEM AND METHOD FOR MEASURING AND STORING INFORMATION PERTAINING TO TELEVISION VIEWER OR USER BEHAVIOR	6286140	1997-11-20	2001-09-04
United States	METHOD FOR TELEVISION SCRAMBLING	4993066	1987-02-26	1991-02-12
United States	HAND HELD CONTROL DEVICE WITH DUAL-MODE JOYSTICK FOR POINTING AND SCROLLING	7804485	2007-02-09	2010-09-28
United States	HAND HELD CONTROL DEVICE WITH DUAL-MODE JOYSTICK FOR POINTING AND SCROLLING	8502779	2010-09-17	2013-08-06
United States	AUTOMATIC VOICE RESPONSE CALL-OUT SYSTEM	6614886	1999-08-09	2003-09-02
United States	SYSTEM AND METHOD FOR COMPUTING NAVIGATION INFORMATION IN THE PRESENCE OF INTERFERENCE	6600444	2002-02-22	2003-07-29
United States	INTEGRATED GPS/INTERFERENCE LOCATION SYSTEM WITH ANTI-JAM PROCESSOR	6882936	2003-03-03	2005-04-19
United States	APPARATUS AND METHOD FOR TRADING ELECTRIC ENERGY	6115698	1995-08-18	2000-09-05
United States	APPARATUS AND METHOD FOR TRADING ELECTRIC ENERGY	6473744	1999-08-06	2002-10-29
United States	SOUND STORAGE AND SOUND RETRIEVAL SYSTEM HAVING PERIPHERAL WITH HAND-OPERABLE SWITCHES	5402518	1992-07-22	1995-03-28
United States	RADIO COMMUNICATION SYSTEM USING SPREAD SPECTRUM TECHNIQUES	5077753	1990-04-09	1991-12-31
United States	METHOD AND SYSTEM FOR CONFIGURATING PRODUCTS	7844495	2001-04-20	2010-11-30
United States	METHOD AND SYSTEM FOR CONFIGURATING PRODUCTS	8694391	2012-05-09	2014-04-08
United States	WIRE BONDING DEVICE	5199628	1992-06-02	1993-04-06
United States	BUMP FORMING METHOD	5263246	1992-02-14	1993-11-23
United States	METHOD FOR PRODUCING SOLDER THAT CONTAINS THEREIN ADDITIVE PARTICLES MAINTAINING ITS SHAPE	5377899	1994-01-31	1995-01-03
United States	FABRICATION PROCESSES FOR MULTILEVEL INTERCONNECTIONS IN A SEMICONDUCTOR DEVICE	5506177	1995-02-24	1996-04-09
United States	SEMICONDUCTOR LIGHT RECEIVING APPARATUS	550675	1994-09-22	1996-08-27
United States	IMAGE SUB-SAMPLING APPARATUS	5565925	1995-08-10	1996-10-15

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United States	MICROPROCESSOR WITH BUS SIZING FUNCTION	5603048	1996-01-02	1997-02-11
United States	SERIAL-TRANSMISSION APPARATUS HAVING AN OPERATION SURELY CARRIED OUT EVEN IF A SERIAL DATUM IS REPRESENTED BY AN UNKNOWN NUMBER OF DATA BITS	5613104	1994-10-27	1997-03-18
United States	SEMICONDUCTOR DEVICE INCLUDING RECTANGULAR FUNCTIONAL BLOCKS HAVING AT LEAST ONE COMMON LENGTH	5616939	1994-09-06	1997-04-01
United States	CIRCUIT FOR DRIVING LIQUID CRYSTAL DEVICE	5617111	1996-07-09	1997-04-01
United States	CASCODE CIRCUIT OPERABLE AT A LOW WORKING VOLTAGE AND HAVING A HIGH OUTPUT IMPEDANCE	5625313	1994-09-12	1997-04-29
United States	STATIC-TYPE OF SEMICONDUCTOR MEMORY DEVICE HAVING GREAT LOW VOLTAGE OPERATION MARGIN	5642315	1995-09-28	1997-06-24
United States	MICROCOMPUTER HAVING A REGION DEFINABLE BY USER	5649219	1996-09-04	1997-07-15
United States	PARALLEL-TO-SERIAL DATA CONVERSION CIRCUIT	5654707	1994-12-28	1997-08-05
United States	SEMICONDUCTOR DEVICE HAVING AN INTERNAL VOLTAGE STEP UP CONTROL CIRCUIT	5663926	1996-01-30	1997-09-02
United States	SEMICONDUCTOR CIRCUIT HAVING INPUT PROTECTIVE CIRCUIT	5691557	1994-12-16	1997-11-25
United States	SAMPLING AND HOLDING DEVICE	5698999	1996-03-28	1997-12-16
United States	METHOD OF AND APPARATUS FOR DEBUGGING MULTITASK PROGRAMS	5805892	1995-09-13	1998-09-08
United States	METHOD OF FABRICATING FIELD-EFFECT TRANSISTOR WITH AN LDD STRUCTURE	5985712	1997-11-04	1999-11-16
United States	TRANSIENT-CURRENT-PRODUCING METHOD, TRANSIENT-CURRENT PRODUCING CIRCUIT, RELATED SEMICONDUCTOR INTEGRATED CIRCUIT AND LOGICAL CIRCUIT	6029866	2000-01-27	2001-12-11
United States	REFERENCE-CURRENT-GENERATING CIRCUIT	6077113	1996-10-11	2002-04-23
United States	SEMICONDUCTOR DEVICE AND PROCESS FOR PRODUCTION THEREOF	6413808	2000-07-17	2002-07-02
United States	SOLID-STATE IMAGE SENSOR HAVING VERTICAL TRANSFER ELECTRODES PROTECTED FROM SHORT CIRCUITING	6441853	1998-06-23	2002-08-27
United States	HIGH-SPEED VOLTAGE BOOSTING CIRCUIT	6459328	2000-11-13	2002-10-01
United States	EMBEDDED ISI HAVING A FERAM SECTION AND A LOGIC CIRCUIT SECTION	6465826	2001-01-02	2002-10-15
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE HAVING TRENCH INTERCONNECTION	6472318	2001-08-02	2002-10-29

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	SEMICONDUCTOR MEMORY HAVING A PAIR OF BANK SELECT DRIVERS DRIVING EACH BANK SELECT LINE	64973327	2000-11-09	2002-10-29
United States	COPPER WIRING STRUCTURE COMPRISING A COPPER MATERIAL BURIED IN A HOLLOW OF AN INSULATING FILM AND A CARBON LAYER BETWEEN THE HOLLOW AND THE COPPER MATERIAL IN SEMICONDUCTOR DEVICE AND METHOD FABRICATING THE SAME	6482741	1999-08-20	2002-11-19
United States	CIRCUIT DEVICE WITH BONDING STRENGTH IMPROVED AND METHOD OF MANUFACTURING THE SAME	6486562	2000-06-07	2002-11-26
United States	FERROELECTRIC MEMORY DEVICE HAVING A PROTECTIVE LAYER	6495879	1999-11-22	2002-12-17
United States	SEMICONDUCTOR DEVICE CAPABLE OF SURELY FIXING VOLTAGE AT WELL	6495899	2001-03-30	2002-12-17
United States	SEMICONDUCTOR DEVICE HAVING RELIABLE COUPLING BETWEEN WIRING SUBSTRATE AND SEMICONDUCTOR PELLETS	6504240	2000-12-15	2003-01-07
United States	SEMICONDUCTOR MEMORY DEVICE WITH IMPROVED REFERENCE SECTION	6507052	2000-08-21	2003-01-14
United States	SEMICONDUCTOR DEVICE	6515364	2001-04-10	2003-02-04
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	6521500	2000-06-29	2003-02-18
United States	ETCHING MASK, PROCESS FOR FORMING CONTACT HOLES USING SAME, AND SEMICONDUCTOR DEVICE MADE BY THE PROCESS	6559486	2000-11-30	2003-05-06
United States	COLOR SIGNAL CONVERSION BY MEANS OF THE FEWEST CONVERTER TABLES	6587223	1999-07-21	2003-07-01
United States	APPARATUS AND METHOD FOR DESIGNING SEMICONDUCTOR CIRCUIT, AND RECORDING MEDIUM	6591408	2000-09-26	2003-07-08
United States	MPEG DECODING DEVICE	6600787	2001-01-18	2003-07-29
United States	LOW-AMPLITUDE DRIVER CIRCUIT	6603334	2000-05-31	2003-08-05
United States	ETCHING MASK, PROCESS FOR FORMING CONTACT HOLES USING SAME, AND SEMICONDUCTOR DEVICE MADE BY THE PROCESS	6617245	2002-03-25	2003-09-09
United States	DIRECT MEMORY ACCESS CONTROLLER	6629160	2000-06-13	2003-09-30
United States	FUNCTION SYNTHESIZING METHOD AND APPARATUS, AND RECORDING MEDIUM ON WHICH PROGRAM OF SAID METHOD IS RECORDED	6711728	2000-02-18	2004-03-23
United States	LOW-AMPLITUDE DRIVER CIRCUIT	6724664	2002-08-20	2004-04-20
United States	APPARATUS FOR SELECTIVELY CUTTING FUSE ELECTRODES	6822309	2001-03-22	2004-11-23

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United States	APPEARANCE INSPECTION APPARATUS AND METHOD IN WHICH PLURAL THREADS ARE PROCESSED IN PARALLEL	6087894	2001-04-25	2006-01-17
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	7148571	2000-07-27	2006-12-12
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	5991221	1998-01-30	1999-11-23
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	6154412	1999-09-17	2000-11-28
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	6327212	2000-10-24	2001-12-04
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	6407959	2001-06-06	2002-06-18
United States	SINGLE CHIP MICROCOMPUTER INTERNALLY INCLUDING A FLASH MEMORY	6453397	1999-12-14	2002-09-17
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	6661715	2002-06-04	2003-12-09
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	6670251	2001-12-07	2003-12-30
United States	PROCESS FOR MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING TREATMENT OF GAS USED IN THE PROCESS	6723665	2003-04-02	2004-04-20
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	6845046	2003-07-22	2005-01-18
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	7023729	2004-12-07	2006-04-04
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	7045420	2004-03-08	2006-05-16
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7064040	2005-06-30	2006-06-20
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7074665	2003-11-06	2006-07-11
United States	SEMICONDUCTOR DEVICE MANUFACTURING METHOD AND SEMICONDUCTOR DEVICE	7078759	2005-06-24	2006-07-18
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7094642	2005-04-21	2006-08-22
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7094655	2005-06-30	2006-08-22
United States	CARBON-CONTAINING SILICON OXIDE FILM HAVING HIGH ASHING TOLERANCE AND ADHESION	7102236	2004-01-29	2006-09-05

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United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	7236419	2006-03-02	2007-06-26
United States	METHOD FOR FABRICATING SEMICONDUCTOR DEVICE	7314805	2006-09-13	2008-01-01
United States	SEMICONDUCTOR DEVICE COMPRISING A HIGHLY RELIABLE, CONSTANT CAPACITANCE CAPACITOR	7368776	2006-01-23	2008-05-06
United States	MICROCOMPUTER AND MICROPROCESSOR HAVING FLASH MEMORY OPERABLE FROM SINGLE EXTERNAL POWER SUPPLY	7385869	2007-05-04	2008-06-10
United States	CARBON-CONTAINING SILICON OXIDE FILM HAVING HIGH ASHING TOLERANCE AND ADHESION	7420279	2006-06-28	2008-09-02
United States	METHOD OF FABRICATING SEMICONDUCTOR DEVICE	7569457	2007-11-09	2009-08-04
United States	CARBON-CONTAINING SILICON OXIDE FILM HAVING HIGH ASHING TOLERANCE AND ADHESION	7582970	2008-07-28	2009-09-01
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	7754562	2009-02-10	2010-07-13
United States	SEMICONDUCTOR DEVICE MANUFACTURING METHOD AND SEMICONDUCTOR DEVICE	7763926	2008-10-07	2010-07-27
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	7795648	2009-02-10	2010-09-14
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	7816204	2008-05-23	2010-10-19
United States	SEMICONDUCTOR DEVICE COMPRISING CAPACITOR AND METHOD OF FABRICATING THE SAME	8759891	2013-01-25	2014-06-24
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND METHOD OF MANUFACTURING THE SAME	5798551	1997-01-17	1998-08-25
United States	FLASH MEMORY INCORPORATING MICROCOMPUTER HAVING ON-BOARD WRITING FUNCTION	5872994	1996-11-12	1999-02-16
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND METHOD OF MANUFACTURE THEREOF	6603178	2001-01-04	2003-08-05
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6661063	2001-03-02	2003-12-09
United States	METHOD OF MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING CAPACITOR ELEMENT	6737712	2002-10-15	2004-05-18
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	6747324	2003-06-16	2004-06-08

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United States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE-HAVING-CAPACITOR-ELEMENT	7030449	2004-09-29	2006-04-18
United States	METHOD-OF-MANUFACTURING-A-SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	7075157	2004-04-29	2006-07-11
United States	METHOD-OF-MANUFACTURING-SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE-HAVING-CAPACITOR-ELEMENT	7199433	2004-01-14	2007-04-03
United States	METHOD-OF-MANUFACTURING-SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE-HAVING-CAPACITOR-ELEMENT	7323735	2005-07-05	2008-01-29
United States	SEMICONDUCTOR-DEVICE-AND-MANUFACTURING-METHOD-THEREOF-FOR-REDUCING-THE-AREA-OF-THE-MEMORY-CELL-REGION	7439153	2006-10-03	2008-10-21
United States	METHOD-OF-MANUFACTURING-SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE-HAVING-CAPACITOR-ELEMENT	7598558	2007-10-29	2009-10-06
United States	SEMICONDUCTOR-DEVICE-AND-MANUFACTURING-METHOD-THEREOF-FOR-REDUCING-THE-AREA-OF-THE-MEMORY-CELL-REGION	7663193	2008-09-25	2010-02-16
United States	SEMICONDUCTOR-DEVICE-AND-MANUFACTURING-METHOD-THEREOF-FOR-REDUCING-THE-AREA-OF-THE-MEMORY-CELL-REGION	8183114	2009-12-11	2012-05-22
United States	Semiconductor-Memory-Apparatus, Semiconductor-Apparatus, Data-Processing-Apparatus-And-Computer-System	6396732	2000-05-24	2002-05-28
United States	Semiconductor-Memory-Device-Operating-With-Low-Power-Consumption	6512715	2001-11-16	2003-01-28
United States	Semiconductor-Memory-Apparatus, Semiconductor-Apparatus, Data-Processing-Apparatus-And-Computer-System	6515894	2001-11-19	2003-02-04
United States	Semiconductor-Device-Including-Interface-Circuitry-Logic-Circuitry-And-Static-Memory-Array-Having-Transistors-Of-Variuous-Threshold-Voltages-And-Being-Supplied-With-Variuous-Supply-Voltages	6545525	2000-02-02	2003-04-08
United States	Information-Processing-Apparatus-Having-A-Bus-Using-The-Protocol-Of-The-Acknowledge-Type-In-The-Source-Clock-Synchronous-System	6610454	2003-01-08	2004-10-26
United States	Semiconductor-Device	7176745	2004-05-24	2007-02-13
United States	Semiconductor-Device	7172917	2000-03-27	2010-08-10
United States	Semiconductor-Device		2003-03-12	
United States	Data-processor-having-unified-memory-architecture-providing-priority-memory-access	6717583	2001-11-26	2004-04-06
United States	Data-processor-having-unified-memory-architecture-using-registers-to-optimize-memory-access	6954206	2003-09-25	2005-10-11
United States	Semiconductor-integrated-circuit-including-charging-pump	7598796	2007-11-27	2009-10-06

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United States	Substrate-bias-switching-unit-for-a-low-power-processor	7958379	2008-12-30	2011-06-07
United States	SEMICONDUCTOR-DEVICE-WITH-CONTACTS-FORMED-IN-SELF-ALIGNMENT	5089951	1996-04-18	1999-11-23
United States	METHOD-OF-MANUFACTURING-SEMICONDUCTOR-DEVICES	6380095	2000-12-29	2002-04-30
United States	METHOD-OF-FABRICATING-A-SEMICONDUCTOR-DEVICE	6610561	2001-05-07	2003-08-26
United States	SEMICONDUCTOR-STORAGE-DEVICE-AND-PROCESS-FOR-MANUFACTURING-THE-SAME	6617205	1998-05-20	2003-09-09
United States	SOLID-STATE-IMAGE-SENSING-DEVICE-WITH-LIGHT-SHIELDING-MEMBER-HAVING-OPENINGS-SPACED-AT-AN-EQUAL-HEIGHT	6642965	1999-07-14	2003-11-04
United States	SEMICONDUCTOR-DEVICE-WITH-CONDUCTIVE-CONTACT-LAYER-STRUCTURE	6731008	1996-10-07	2004-05-04
United States	SEMICONDUCTOR-DEVICE-WITH-MULTIPLE-LAYER-INSULATING-FILM	7084508	2002-08-07	2006-08-01
United States	SEMICONDUCTOR-MEMORY-ARRANGEMENTS-WITH-GROWN-SHAPED-CAPACITOR-ARRANGEMENTS-TRENCHED-IN-INTERLAYER-DIELECTRIC-FILM	7196368	2004-08-10	2007-03-27
United States	SEMICONDUCTOR-DEVICE-AND-DUMMY-PATTERN-ARRANGEMENT-METHOD	7761833	2008-04-15	2010-07-20
United States	MANUFACTURING-METHOD-FOR-ELECTRONIC-DEVICES	7772032	2008-11-18	2010-08-10
United States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	6639455	2003-01-24	2003-10-28
United States	MICROCOMPUTER-AND-MICROCOMPUTER-SYSTEM	6763448	2000-02-14	2004-07-13
United States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	6765434	2003-07-16	2004-07-20
United States	SEMICONDUCTOR-DEVICE	7383138	2006-04-12	2008-06-03
United States	SEMICONDUCTOR-DEVICE-AND-SEMICONDUCTOR-SIGNAL-PROCESSING-APPARATUS	7562198	2005-06-09	2009-07-14
United States	SEMICONDUCTOR-DEVICE-AND-SEMICONDUCTOR-SIGNAL-PROCESSING-APPARATUS	7791962	2008-06-16	2010-09-07
United States	SEMICONDUCTOR-DEVICE-AND-SEMICONDUCTOR-SIGNAL-PROCESSING-APPARATUS	8089819	2010-08-16	2012-01-03
United States		6897499	2003-02-07	2005-05-24
United States		6909658	2004-05-11	2005-06-21
United States		6930924	2003-04-02	2005-08-16
United States		6949950	2004-02-24	2005-09-27
United States		7072225	2005-06-29	2006-07-04

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United States		7663163	2007-07-12	2010-02-16
United States	SEMICONDUCTOR DEVICE CONTAINING VOLTAGE CONVERTING CIRCUIT AND OPERATING METHOD THEREOF	5283762	1991-05-06	1994-02-01
United States	LOW-DISTORTION CASCODE CIRCUIT	5514992	1994-07-12	1996-05-07
United States	SYNCHRONOUS RANDOM ACCESS MEMORY	5515325	1994-12-12	1996-05-07
United States	METHOD OF EXECUTING READ AND WRITE OPERATIONS IN A SYNCHRONOUS RANDOM ACCESS MEMORY	5752270	1997-04-28	1998-05-12
United States	SYNCHRONOUS RANDOM ACCESS MEMORY	6026048	1998-01-13	2000-02-15
United States	SYNCHRONOUS RANDOM ACCESS MEMORY	6327188	2000-01-04	2001-12-04
United States	HIGH-FREQUENCY POWER AMPLIFYING APPARATUS HAVING AMPLIFYING STAGES WITH GAIN CONTROL SIGNALS OF LOWER AMPLITUDES APPLIED TO EARLIER PRECEDING STAGES	6463267	2000-04-17	2002-10-08
United States	SEMICONDUCTOR MEMORY DEVICE WITH OVER-DRIVING SENSE AMPLIFIER	6477100	2001-08-22	2002-11-05
United States	SEMICONDUCTOR MEMORY DEVICE HAVING READ DATA MULTIPLEXER	6519187	2001-09-25	2003-02-11
United States	SEMICONDUCTOR DEVICE	6535415	2002-09-23	2003-03-18
United States	OUTPUT BUFFER CIRCUIT	6586973	1999-10-21	2003-07-01
United States	HIGH-FREQUENCY POWER AMPLIFYING APPARATUS HAVING AMPLIFYING STAGES WITH GAIN CONTROL SIGNALS OF LOWER AMPLITUDES APPLIED TO EARLIER PRECEDING STAGES	6658243	2002-07-22	2003-12-02
United States	SEMICONDUCTOR DEVICE	6717835	2003-01-22	2004-04-06
United States	SEMICONDUCTOR DEVICE	6819613	2003-10-27	2004-11-16
United States	SEMICONDUCTOR DEVICE	7230867	2005-08-18	2007-06-12
United States	SEMICONDUCTOR DEVICE	7345938	2007-05-09	2008-03-18
United States	SEMICONDUCTOR DEVICE WITH HYDROGEN ION INTERCEPTING LAYER	5327224	1992-10-14	1994-07-05
United States	STACKED-TYPE SEMICONDUCTOR DEVICE	5355022	1992-08-28	1994-10-11
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH HYDROGEN ION INTERCEPTING LAYER	5470764	1994-05-23	1995-11-28
United States	STACKED-TYPE SEMICONDUCTOR DEVICE	5504376	1994-04-04	1996-04-02
United States	SEMICONDUCTOR DEVICE HAVING A FLOATING NODE THAT CAN MAINTAIN A PREDETERMINED POTENTIAL FOR LONG TIME, A	5592009	1995-08-17	1997-01-07

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	SEMICONDUCTOR MEMORY DEVICE HAVING HIGH DATA MAINTENANCE PERFORMANCE, AND A METHOD OF MANUFACTURING THEREOF			
United States	METHOD FOR FABRICATING SEMICONDUCTOR DEVICE AND PROCESSING APPARATUS FOR PROCESSING SEMICONDUCTOR DEVICE	6612912	1999-08-10	2003-09-02
United States	PHOTOMASK, FABRICATION METHOD OF PHOTOMASK, AND FABRICATION METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT	6737198	1999-05-26	2004-05-18
United States	APPARATUS AND METHOD FOR COMMUNICATION OF VISUAL GRAPHIC DATA WITH RADIO SUBCARRIER FREQUENCIES	5023934	1990-07-02	1991-06-11
United States	LIQUID CRYSTAL DISPLAY UNIT WHICH IS BACK-LIT WITH COLORED LIGHTS	5128782	1990-05-10	1992-07-07
	FEROELECTRIC LIQUID CRYSTAL DISPLAY APPARATUS AND METHOD	5416496	1993-03-19	1995-05-16
United States	METHOD FOR DRIVING AN ADDRESSABLE MATRIX DISPLAY WITH LUMINESCENT PIXELS, AND DISPLAY APPARATUS USING THE METHOD	6288695	1998-08-25	2001-09-11
United States	DISPLAY APPARATUS AND METHOD	7253794	2002-02-11	2007-08-07
United States	DISPLAY APPARATUS AND METHOD	7782280	2006-05-02	2010-08-24
United States	ELECTROMAGNETICALLY SHIELDED HEARING AIDS	6546109	2000-01-03	2003-04-08
United States	VARYING THE RATE AT WHICH DATA APPEAR ON AN OPTICAL DISC ROTATED AT A CONSTANT LINEAR VELOCITY TO PREVENT UNAUTHORIZED DUPLICATION OF THE DISC	90607756	2005-10-05	2009-04-21
United States	AUTOMATIC VOICE RESPONSE SYSTEM FOR TAX RETURN STATUS	107826012		
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE	US6344388	6/4/1999	2/5/2002
United States	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE	US6096641	6/4/1999	8/1/2000
United States	SEMICONDUCTOR DEVICE WITH A PARTICULAR CONDUCTOR ARRANGEMENT	US6639288	6/19/2000	10/28/2003
United States	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF	US6580113	6/28/1999	6/17/2003
United States	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME	US6309958	9/8/1999	10/30/2001
United States	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF	US6548990	10/21/1999	4/15/2003
United States	REDUNDANCY FUSE BLOCK HAVING A SMALL OCCUPIED AREA	US6215173	11/12/1999	4/10/2001
United States	MULTILAYERED SEMICONDUCTOR DEVICE	US6369446	11/15/1999	4/9/2002
United States	MULTILAYERED SEMICONDUCTOR DEVICE	US6713872	4/3/2002	3/30/2004
United States	ELECTRODE STRUCTURE OF SEMICONDUCTOR ELEMENT	US6313540	12/22/1999	11/6/2001

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United States	METHOD OF MANUFACTURING AN EEPROM DEVICE	US6576512	9/23/2002	6/10/2003
United States	METHOD OF MANUFACTURING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING SILICIDE LAYERS	US6569742	12/23/1999	5/27/2003
United States	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE	US7166893	9/23/2002	1/23/2007
United States	METHOD OF MANUFACTURING MISFET	US6235564	1/20/2000	5/22/2001
United States	{No Title}	US6348405	1/25/2000	2/19/2002
United States	METHOD OF MANUFACTURING A PACKAGED SEMICONDUCTOR DEVICE, AND A SEMICONDUCTOR DEVICE MANUFACTURED THEREBY	US6544814	1/31/2000	4/8/2003
United States	MICROCOMPUTER AND MICROCOMPUTER SYSTEM	US6907514	7/13/2004	6/14/2005
United States	METHOD OF FABRICATING A SEMICONDUCTOR DEVICE	US6309960	3/22/2000	10/30/2001
United States	METHOD FOR PRODUCING THREE-DIMENSIONAL CIRCUITS	US6664132	11/20/2001	12/16/2003
United States	{No Title}	US6466484	1/28/2002	10/15/2002
United States	{No Title}	US6356480	6/7/2000	3/12/2002
United States	SEMICONDUCTOR DEVICE AND A MANUFACTURING PROCESS THEREFOR	US5514853	6/13/2000	2/4/2003
United States	PHOTOELECTRIC CONVERSION DEVICE AND METHOD OF MANUFACTURING THE SAME	US6407417	6/14/2000	6/18/2002
United States	COPPER INTERCONNECTION	US670639	12/11/2001	12/30/2003
United States	METHOD OF MANUFACTURING A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE INCLUDING A GATE ELECTRODE HAVING A SILICIDE LAYER THEREON	US6908837	9/23/2002	6/21/2005
United States	SEMICONDUCTOR DEVICE HAVING GATE INSULATING LAYERS DIFFERENT IN THICKNESS AND MATERIAL AND PROCESS FOR FABRICATION THEREOF	US6475862	8/10/2000	11/5/2002
United States	SEMICONDUCTOR DEVICE WITH DYNAMIC PATTERNS	US6563148	4/10/2001	5/13/2003
United States	SEMICONDUCTOR DEVICE WITH A FIRST DYNAMIC PATTERN	US6753246	4/22/2003	6/22/2004
United States	METHOD OF ARRANGING EXPOSED AREAS INCLUDING A LIMITED NUMBER OF TEST ELEMENT GROUP (TEG) REGIONS ON A SEMICONDUCTOR WAFER	US6492189	10/26/2000	12/10/2002
United States	SEMICONDUCTOR PRODUCT WAFER HAVING VERTICALLY AND HORIZONTALLY ARRANGED PATTERNED AREAS INCLUDING A LIMITED NUMBER OF TEST ELEMENT GROUP REGIONS	US6762433	9/19/2002	7/13/2004
United States	SEMICONDUCTOR WAFER SURFACE AND METHOD OF TREATING A SEMICONDUCTOR WAFER SURFACE	US6897150	11/20/2000	5/24/2005

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United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US7352236	12/13/2006	4/1/2008
United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US6970036	6/4/2004	11/29/2005
United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US7830204	2/26/2010	11/9/2010
United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US7161414	11/3/2005	1/9/2007
United-States	SOLID-STATES-IMAGING-DEVICE-AND-METHOD-FOR-FABRICATING-SAME	US6603144	12/8/2000	8/5/2003
United-States	SEMICONDUCTOR-DEVICE; DESIGNING METHOD AND DESIGNING DEVICE THEREOF	US6838770	6/27/2001	1/4/2005
United-States	SEMICONDUCTOR-DEVICE-AND-MOUNTED-SEMICONDUCTOR-DEVICE STRUCTURE	US6639315	8/10/2001	10/28/2003
United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US5535056	6/6/2001	3/18/2003
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US6604505	4/8/2013	12/10/2013
United-States	SEMICONDUCTOR-DEVICE-WITH-AN-ACTIVE-REGION-AND-PURRAL-DUMMY-REGIONS	US6693315	11/2/2001	2/17/2004
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US5937147	6/19/2015	5/10/2016
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US7948086	3/1/2010	5/24/2011
United-States	METHOD-OF-MANUFACTURING-A-SEMICONDUCTOR-DEVICE-HAVING-AN ACTIVE-REGION-AND-DUMMY-PATTERNS	US6119495	4/28/2011	2/21/2012
United-States	SEMICONDUCTOR-DEVICE-HAVING-ACTIVE-REGION-AND-DUMMY WIRINGS	US6426969	1/31/2012	4/23/2013
United-States	METHOD-OF-MANUFACTURING-A-SEMICONDUCTOR-DEVICE-INCLUDING DUMMY-REGIONS-AND-DUMMY-WIRINGS	US6064926	12/9/2013	6/23/2015
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US7071560	12/31/2003	7/4/2006
United-States	SEMICONDUCTOR-INTEGRATED-CIRCUIT-DEVICE	US7696813	2/4/2008	4/13/2010
United-States	Method-, apparatus- and- computer- programs- for- multiplexing- and/ or demultiplexing	US7415046	2/19/2002	8/19/2008
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US7411302	5/10/2006	8/12/2008
United-States	SEMICONDUCTOR-DEVICE-AND-A-METHOD-OF-MANUFACTURING-THE SAME-AND-DESIGNING-THE-SAME	US7589423	5/24/2007	9/15/2009

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United States	Method and apparatus for controlling the extinction ratio of transmitters	US6819480	5/2/2002	11/16/2004
United States	Conditional bandwidth subscriptions for multiprotocol label switching (MPLS) labeled switched paths (LSRs)	US7133360	5/7/2002	11/7/2006
United States	MICROPROCESSOR-INTERNALLY-PROVIDED-WITH-TEST-CIRCUIT	US6816983	2/20/2001	11/9/2004
United States	SEMICONDUCTOR-DEVICE AND A METHOD OF MANUFACTURING THE SAME-AND-DESIGNING-THE-SAME	US7687914	10/30/2007	3/30/2010
United States	SOLID-STATES-IMAGE-PIXEL-DEVICE	US7030918	6/27/2000	4/18/2006
United States	SEMICONDUCTOR-DEVICE-AND-METHOD-FOR-MANUFACTURING-THE SAME	US6900539	10/17/2002	5/31/2005
United States	Method and device for authenticated access of a station to local data networks in particular radio data networks	US756507	10/18/2004	7/13/2010
United States	SEMICONDUCTOR-MEMORY-DEVICE	US6791200	12/19/2002	9/14/2004
United States	SEMICONDUCTOR-DEVICE-WITH-CONTACTING-ELECTRODES	US6919646	3/11/2003	7/19/2005
United States	SEMICONDUCTOR-DEVICE-AND-METHOD-OF-MANUFACTURING-THE SAME	US6841420	9/11/2003	1/11/2005
United States	Variable-bandwidth-multi-granularity-optical-add/drop-network	US696307	9/9/2003	2/7/2006
United States	Optical-network-termination-with-automatic-determination-of-geographic location	US7289731	1/29/2004	10/30/2007
United States	Flow-control-and-congestion-management-for-random-scheduling-in-time-domain-wavelength-interleaved-networks	US6130683B2	4/18/2005	3/6/2012
United States	Establishment-of-a-transcoder-free-operation-connection	US6351360B2	1/27/2012	1/8/2013
United States	METHOD-FOR-CUTTING-AN-ELECTRIC-FUSE	US6372730	6/23/2011	2/12/2013
United States	SEMICONDUCTOR-DEVICE	US6073643	5/18/2008	12/6/2011
United States	SEMICONDUCTOR-DEVICE-AND-METHOD-FOR-CUTTING-ELECTRIC-FUSE	US7989913	5/11/2007	8/2/2011
United States	System, method and computer readable medium for providing dual-rate transmission on a gigabit passive optical network	US686104	2/15/2008	12/27/2011
United States	SEMICONDUCTOR-DEVICE-AND-DUMMY-PATTERN-ARRANGEMENT-METHOD	US692078	12/7/2009	12/6/2011
United States	MANUFACTURING-METHOD-FOR-ELECTRONIC-DEVICES	US7973158	7/8/2010	7/12/2011
United States	MANUFACTURING-METHOD-FOR-ELECTRONIC-DEVICES	US678143	6/22/2011	10/2/2012

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United States	SEMI-CONDUCTOR-DEVICE AND METHOD-OF-MANUFACTURING-THE SAME	US8258589	2/9/2011	9/4/2012
United States	SEMI-CONDUCTOR-DEVICE AND METHOD-OF-MANUFACTURING-THE SAME	US8372709	8/14/2012	2/12/2013
United States	SEMI-CONDUCTOR-DEVICE	US8304905	7/27/2011	11/6/2012
United States	Cloud-computing infrastructure, method and application	US9787604	1/4/2015	10/10/2017

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	AMERICAN VEHICULAR SCIENCES LLC			
United States	OPTICAL IDENTIFICATION AND MONITORING SYSTEM USING PATTERN RECOGNITION FOR USE WITH VEHICLES	5835613	1995-06-07	1998-11-10
United States	OPTICAL IDENTIFICATION AND MONITORING SYSTEM USING PATTERN RECOGNITION FOR USE WITH VEHICLES	5845000		1998-12-01
United States	PLASTIC FILM AIRBAG	6149194	1998-05-04	2000-11-21
United States	EFFICIENT AIRBAG SYSTEM	6179326	1998-05-06	2001-01-30
United States	TUBULAR AIRBAG, METHOD OF MAKING THE SAME AND OCCUPANT PROTECTION SYSTEM INCLUDING THE SAME	6250668	2000-03-27	2001-06-26
United States	VEHICULAR SEATS INCLUDING OCCUPANT PROTECTION APPARATUS	6331014	2000-07-11	2001-12-18
United States	ACCIDENT AVOIDANCE SYSTEM	6405132	2000-10-04	2002-06-11
United States	VEHICULAR OCCUPANT MOTION DETECTION SYSTEM USING RADAR	6736231	2001-06-26	2004-05-18
United States	SYSTEM AND METHOD FOR MOVING A HEADREST BASED ON ANTICIPATORY SENSING	6746078	2002-09-03	2004-06-08
United States	METHOD AND SYSTEM FOR CONTROLLING A VEHICLE	6768944	2002-08-09	2004-07-27
United States	SYSTEM AND METHOD FOR DETECTING THE PRESENCE OF AN OBJECT IN AN APERTURE	6984818	2004-12-01	2006-01-10
United States	METHOD FOR CONTROLLING OUTPUT OF A CLASSIFICATION ALGORITHM	7009502	2003-08-20	2006-03-07
United States	VEHICULAR BLIND SPOT IDENTIFICATION AND MONITORING SYSTEM	7049945	2001-05-08	2006-05-23
United States	METHOD AND SYSTEM FOR CONTROLLING A VEHICLE	7085637	2004-04-12	2006-08-01
United States	COMMUNICATION METHOD AND ARRANGEMENT	7110880	2005-01-03	2006-09-19
United States	INTERACTIVE VEHICLE DISPLAY SYSTEM	7126583	2000-08-24	2006-10-24
United States	METHOD AND SYSTEM FOR DETECTING OBJECTS EXTERNAL TO A VEHICLE	7202776	2005-01-12	2007-04-10
United States	METHOD FOR OBTAINING AND DISPLAYING INFORMATION ABOUT OBJECTS IN A VEHICULAR BLIND SPOT	7209221	2005-04-21	2007-04-24
United States	ACCIDENT AVOIDANCE SYSTEMS AND METHODS	7295925	2006-11-22	2007-11-13
United States	WEIGHT MEASURING SYSTEMS AND METHODS FOR VEHICLES	7330784	2006-05-25	2008-02-12
United States	COLLISION AVOIDANCE METHODS AND SYSTEMS	7418346	2006-08-01	2008-08-26
United States	ACCIDENT AVOIDANCE SYSTEMS AND METHODS	7426437	2007-03-05	2008-09-16

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United States	METHOD AND APPARATUS FOR CONTROLLING A VEHICLE DOOR	7438346	2005-09-19	2008-10-21
United States	FIRE MONITORING TECHNIQUES	7467034	2006-10-30	2008-12-16
United States	AIRBAG INFLATION CONTROL BASED ON SENSED CONTACT WITH OCCUPANT	7575248	2006-07-12	2009-08-18
United States	SELF-POWERED TIRE MONITORING SYSTEM	7603894	2007-10-30	2009-10-20
United States	REAR IMPACT OCCUPANT PROTECTION APPARATUS AND METHOD	7604080	2006-05-01	2009-10-20
United States	VEHICLE POSITION DETERMINING SYSTEM AND METHOD	7610146	2007-10-19	2009-10-27
United States	VEHICULAR COMMUNICATION ARRANGEMENT AND METHOD	7629899	2006-08-14	2009-12-08
United States	INFORMATION MANAGEMENT AND MONITORING SYSTEM AND METHOD	7630802	2006-06-05	2009-12-08
United States	VEHICULAR INTERSECTION MANAGEMENT TECHNIQUES	7647180	2008-03-17	2010-01-12
United States	VEHICLE COMMUNICATIONS USING THE INTERNET	7672756	2006-06-01	2010-03-02
United States	IMAGE PROCESSING FOR VEHICULAR APPLICATIONS APPLYING IMAGE COMPARISONS	7676062	2007-10-11	2010-03-09
United States	VEHICULAR TIRE MONITORING BASED ON SENSED ACCELERATION	7693626	2007-02-22	2010-04-06
United States	REAR IMPACT OCCUPANT PROTECTION APPARATUS AND METHOD	7695015	2007-10-26	2010-04-13
United States	AIRBAG DEPLOYMENT TECHNIQUES	7726684	2007-10-30	2010-06-01
United States	IMAGE PROCESSING FOR VEHICULAR APPLICATIONS APPLYING EDGE DETECTION TECHNIQUE	7769513	2007-08-20	2010-08-03
United States	SYSTEM AND METHOD FOR PREVENTING VEHICULAR ACCIDENTS	7783403	2007-10-18	2010-08-24
United States	VEHICULAR RFID AND SENSOR ASSEMBLIES	7786864	2006-08-01	2010-08-31
United States	VEHICLE TO INFRASTRUCTURE INFORMATION CONVEYANCE SYSTEM AND METHOD	7791503	2007-10-18	2010-09-07
United States	COMBINED IMAGING AND DISTANCE MONITORING FOR VEHICULAR APPLICATIONS	7796081	2008-03-10	2010-09-14
United States	REMOTE MONITORING OF FLUID STORAGE TANKS	7819003	2007-10-01	2010-10-26
United States	ROAD PHYSICAL CONDITION MONITORING TECHNIQUES	7840342	2008-02-18	2010-11-23
United States	ACCIDENT AVOIDANCE SYSTEMS AND METHODS	7840355	2008-09-11	2010-11-23
United States	SWITCH ASSEMBLIES AND METHOD FOR CONTROLLING VEHICULAR COMPONENTS	7880594	2006-07-03	2011-02-01

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United States	VEHICULAR COMPONENT CONTROL USING WIRELESS SWITCH ASSEMBLIES	7989096	2007-02-22	2011-02-15
United States	METHOD FOR OBTAINING INFORMATION ABOUT OBJECTS OUTSIDE OF A VEHICLE	7989616	2008-03-31	2011-03-01
United States	ACCIDENT AVOIDANCE SYSTEM	7999621	2010-03-11	2011-03-01
United States	METHOD AND SYSTEM FOR OBTAINING INFORMATION ABOUT RFID-EQUIPPED OBJECTS	7911324	2007-05-30	2011-03-22
United States	INFORMATION TRANSFER ARRANGEMENT AND METHOD FOR VEHICLES	7912645	2007-07-16	2011-03-22
United States	VEHICULAR HEADS-UP DISPLAY SYSTEM	7920102	2006-10-23	2011-04-05
United States	AUTONOMOUS VEHICLE TRAVEL CONTROL SYSTEMS AND METHODS	7979172	2008-03-17	2011-07-12
United States	AUTONOMOUS VEHICLE TRAVEL CONTROL SYSTEMS AND METHODS	7979173	2008-03-17	2011-07-12
United States	VEHICULAR ENVIRONMENT SCANNING TECHNIQUES	7983802	2008-03-17	2011-07-19
United States	METHOD AND ARRANGEMENT FOR OBTAINING INFORMATION ABOUT VEHICLE OCCUPANTS	7983817	2005-01-03	2011-07-19
United States	VEHICLE TRAFFIC CONTROL DEVICE COMMUNICATION TECHNIQUES	7983836	2008-02-18	2011-07-19
United States	AIRBAG DEPLOYMENT CONTROL USING SEATBELT MOUNTED SENSOR	7988190	2007-10-26	2011-08-02
United States	INTERSECTION COLLISION AVOIDANCE TECHNIQUES	8000897	2008-01-10	2011-08-16
United States	MONITORING USING CELLULAR PHONES	8014789	2007-10-30	2011-09-06
United States	VEHICLE DIAGNOSTIC AND PROGNOSTIC METHODS AND SYSTEMS	8019501	2007-08-02	2011-09-13
United States	VEHICLE DIAGNOSTIC TECHNIQUES	8024084	2007-10-31	2011-09-20
United States	VEHICULAR HEADS-UP DISPLAY SYSTEM	8032264	2007-10-30	2011-10-04
United States	VEHICULAR MAP DATABASE MANAGEMENT TECHNIQUES	8209120	2008-03-10	2012-06-26
United States	VEHICLE DIAGNOSTIC INFORMATION GENERATING AND TRANSMISSION SYSTEMS AND METHODS	8229624	2008-02-21	2012-07-24
United States	INTRA-VEHICLE INFORMATION CONVEYANCE SYSTEM AND METHOD	8255144	2007-10-18	2012-08-28
United States	DRIVER FATIGUE MONITORING SYSTEM AND METHOD	8604932	2008-12-22	2013-12-10
United States	VEHICLE SPEED CONTROL METHOD AND ARRANGEMENT	8630795	2012-04-24	2014-01-14
United States	EYE-LOGATION DEPENDENT VEHICULAR HEADS-UP DISPLAY SYSTEM	8686922	2008-03-13	2014-04-01
United States	DRIVER HEALTH AND FATIGUE MONITORING SYSTEM AND METHOD	8725311	2012-03-14	2014-05-13

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United States	TECHNIQUE FOR ENSURING SAFE TRAVEL OF A VEHICLE OR SAFETY OF AN OCCUPANT THEREIN	8768573	2012-10-11	2014-07-01
United States	VEHICULAR HEADS-UP DISPLAY SYSTEM	8818647	2007-10-26	2014-08-26
United States	TECHNIQUES FOR IMPROVING SAFE OPERATION OF A VEHICLE	8888296	2013-11-12	2014-11-04
United States	INFORMATION TRANSMITTAL TECHNIQUES FOR VEHICLES	8892271	2012-06-25	2014-11-18
United States	VEHICLE COMPONENT CONTROL METHODS AND SYSTEMS	9008854	2012-05-04	2015-04-15
United States	SINGLE-SIDE CURTAIN AIRBAG FOR VEHICLES	9043093	2007-10-31	2015-05-26
United States	VEHICULAR CRASH NOTIFICATION SYSTEM	9102220	2007-10-25	2015-08-11
United States	MAPPING TECHNIQUES USING PROBE VEHICLES	9103671	2012-11-27	2015-08-11
United States	DRIVER FATIGUE MONITORING	9129505	2013-12-10	2015-09-08
United States	VEHICLE SOFTWARE UPGRADE TECHNIQUES	9443358	2007-10-31	2016-09-13
United States	METHOD FOR IDENTIFYING THE PRESENCE AND ORIENTATION OF AN OBJECT IN A VEHICLE	5943295	1997-08-28	1999-08-24
United States	VEHICLE COMPUTER DESIGN AND USE TECHNIQUES	11/940669	2007-11-15	
United States	VEHICLE SOFTWARE UPGRADE TECHNIQUES	13/964143	2013-08-12	
United States	METHOD AND SYSTEM FOR GUIDING A PERSON TO A LOCATION	14/931441	2015-11-03	
United States		11/858479		
United States		12/840148		

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	BONUSTI SKELETAL INNOVATIONS LLC			
United States	EXPANDABLE CANNULA	5061499	1995-06-06	1999-10-05
United States	METHOD OF USING EXPANDABLE CANNULA	6338730	1995-06-06	2002-01-15
United States	METHOD AND APPARATUS FOR POSITIONING A SUTURE ANCHOR	5814073	1996-12-13	1998-09-29
United States	SUTURE ANCHOR	5718717	1996-08-19	1998-02-17
United States	SUTURE ANCHOR	5080559	1997-11-04	1999-11-09
United States	SUTURE ANCHOR	6007567	1999-03-01	1999-12-28
United States	METHOD FOR SECURING TISSUE WITH ANCHOR	6152949	1999-08-20	2000-11-28
United States	METHOD AND APPARATUS FOR SECURING A SUTURE	6010525	1997-08-01	2000-01-04
United States	METHOD AND APPARATUS FOR SECURING A SUTURE	6468293	2001-05-07	2002-10-22
United States	METHOD AND APPARATUS FOR SECURING A SUTURE	7147652	2002-09-05	2006-12-12
United States	METHOD FOR IMPLANTING A FLOWABLE FASTENER	7879072	2006-05-31	2011-02-01
United States	METHOD AND APPARATUS FOR USE IN ANCHORING A SUTURE	5514072	1996-11-15	1998-09-29
United States	APPARATUS AND METHOD FOR USE IN POSITIONING A SUTURE ANCHOR	5948002	1998-02-11	1999-09-07
United States	APPARATUS AND METHOD FOR USE IN POSITIONING A SUTURE ANCHOR	6033430	1999-06-30	2000-03-07
United States	APPARATUS AND METHOD FOR USE IN POSITIONING AN ANCHOR	6312448	2000-01-07	2001-11-06
United States	APPARATUS AND METHOD FOR USE IN POSITIONING AN ANCHOR	6428562	2001-01-22	2002-08-06
United States	METHOD AND APPARATUS FOR USE IN OPERATING ON A BONE	6086593	1998-06-30	2000-07-11
United States	METHOD AND APPARATUS FOR USE IN OPERATING ON A BONE	6575982	2000-05-05	2003-06-10
United States	CHANGING RELATIONSHIP BETWEEN BONES	6099531	1998-08-20	2000-08-08
United States	CHANGING RELATIONSHIP BETWEEN BONES	6423063	2000-05-11	2002-07-23
United States	SPINAL IMPLANT AND METHODS FOR CHANGING SPATIAL RELATIONSHIPS BETWEEN VERTEBRAE	7092261	2004-01-13	2011-02-22
United States	JOINT SPACER	8956417	2013-01-18	2015-02-15
United States	BONE SUTURE	5021986	1998-02-06	1999-07-13
United States	BONE SUTURE	6117160	1999-06-01	2000-09-12
United States	BONE SUTURE	6045551	1999-07-29	2000-04-04
United States	METHOD OF TREATING A FRACTURED BONE	6238395	2000-03-22	2001-05-29

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United States	METHOD OF POSITIONING BODY TISSUE RELATIVE TO A BONE	6638279	2001-04-16	2003-10-28
United States	APPARATUS AND METHOD FOR SECURING A PORTION OF A BODY	8147514	2009-01-26	2012-04-03
United States	METHOD OF SECURING TISSUE	6447516	1999-08-09	2002-09-10
United States	METHOD AND APPARATUS FOR SECURING A SUTURE	6231592	1999-10-28	2001-05-15
United States	METHOD AND APPARATUS FOR SECURING A SUTURE	6475230	2000-03-10	2002-11-05
United States	METHOD OF SECURING BODY TISSUE	6635073	2001-02-21	2003-10-21
United States	METHOD OF SECURING BODY TISSUE	7087073	2003-04-14	2006-08-08
United States	INSTRUMENTATION FOR MINIMALLY INVASIVE JOINT REPLACEMENT AND METHODS FOR USING SAME	6702821	2001-08-28	2004-03-09
United States	LIMITED INCISION TOTAL JOINT REPLACEMENT METHODS	7959635	2004-03-08	2011-06-14
United States	METHOD OF PERFORMING SURGERY	7104996	2002-07-08	2006-09-12
United States	KNEE-ARTHROPLASTY METHOD	8133229	2003-10-14	2012-03-13
United States	KNEE-ARTHROPLASTY METHOD	7806896	2003-11-25	2010-10-05
United States	SYSTEM AND METHOD FOR TOTAL JOINT REPLACEMENT	7692236	2005-01-18	2011-02-22
United States	TOTAL KNEE-ARTHROPLASTY THROUGH SHORTENED INCISION	7749229	2005-06-30	2010-07-06
United States	METHOD FOR TOTAL KNEE-ARTHROPLASTY AND RESECTING BONE IN SITU	7708740	2005-06-30	2010-05-04
United States	KNEE-ARTHROPLASTY AND PRESERVATION OF THE QUADRICEPS MECHANISM	7806897	2005-06-30	2010-10-05
United States	METHOD OF PREPARING BONES FOR KNEE REPLACEMENT SURGERY	7708741	2005-06-30	2010-05-04
United States	SURGICAL DRAPING SYSTEM	8739797	2006-10-03	2014-06-03
United States	INLEAD ARTICULAR IMPLANT	7828852	2007-03-09	2010-11-09
United States	METHOD OF RESURFACING AN ARTICULAR SURFACE OF A BONE	7931690	2007-03-09	2011-04-26
United States	MINIMALLY INVASIVE SURGICAL SYSTEMS AND METHODS	7837736	2007-10-30	2010-11-23
United States	METHOD OF PREPARING A FEMUR AND TIBIA IN KNEE-ARTHROPLASTY	8632552	2013-03-14	2014-01-21
United States	METHOD FOR ROBOTIC-ARTHROPLASTY USING NAVIGATION	8641726	2013-03-14	2014-02-04
United States	ROBOTIC-ARTHROPLASTY SYSTEM INCLUDING NAVIGATION	8623030	2013-03-14	2014-01-07
United States	METHOD FOR ROBOTIC-ARTHROPLASTY USING NAVIGATION	8834490	2013-10-29	2014-09-16
United States	METHOD OF PERFORMING TOTAL KNEE-ARTHROPLASTY	9192459	2014-04-22	2015-11-24
United States	ROBOTIC-ARTHROPLASTY SYSTEM INCLUDING NAVIGATION	9060797	2014-08-05	2015-06-23

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United-States	SEGMENTAL-KNEE-ARTHROPLASTY	87864495	2010-06-08	2014-07-22
United-States	APPARATUS-AND-METHOD-FOR-SECURING-A-SUTURE	7094251	2002-08-27	2006-08-22
United-States	APPARATUS-AND-METHOD-FOR-SECURING-A-SUTURE	7054750	2006-08-17	2010-12-21
United-States	METHOD-FOR-JOINING-IMPLANTS	8162977	2007-10-31	2012-04-24
United-States	SURGICAL-DRAPING-SYSTEM	7114508	2002-10-03	2006-10-03
United-States	SUTURE-ANCHOR	5089282	1997-09-15	1999-11-23
United-States	SUTURE-ANCHOR-INSERTER-ASSEMBLY-AND-METHOD	5782862	1996-07-01	1998-07-21
United-States	SUTURE-ANCHOR-INSERTER-ASSEMBLY-AND-METHOD	5897574	1998-07-07	1999-04-27
United-States	METHOD-OF-USING-ULTRASONIC-VIBRATION-TO-SECURE-BODY-TISSUE	6368343	2000-03-13	2002-04-09
United-States	METHOD-OF-USING-ULTRASONIC-VIBRATION-TO-SECURE-BODY-TISSUE	6685750	2002-02-15	2003-07-01
United-States	METHOD-AND-DEVICE-FOR-SECURING-BODY-TISSUE	9138222	2004-02-17	2015-09-22
United-States	METHOD-AND-DEVICE-FOR-SECURING-BODY-TISSUE	8932330	2004-02-17	2015-01-13
United-States	METHOD-OF-USING-ULTRASONIC-VIBRATION-TO-SECURE-BODY-TISSUE	8747439	2006-07-10	2014-06-10
United-States	WITH-FASTENING-ELEMENT			
United-States	METHOD-OF-USING-ULTRASONIC-VIBRATION-TO-SECURE-BODY-TISSUE	9067362	2007-10-31	2015-06-30
United-States	WITH-FASTENING-ELEMENT			
United-States	METHOD-AND-DEVICE-FOR-SECURING-BODY-TISSUE	7329263	2004-03-09	2008-02-12
United-States	METHOD-AND-APPARATUS-FOR-SECURING-A-SUTURE	6159234	1999-07-07	2000-12-12
United-States	SPACER	8486066	2003-05-15	2013-07-16
United-States	WEDGE-APPARATUS-FOR-USE-IN-OPERATING-ON-A-BONE	8600944	2007-10-30	2014-04-08
United-States	WEDGE-APPARATUS-FOR-USE-IN-OPERATING-ON-A-BONE	8705363	2013-03-19	2014-08-05
United-States	WEDGE-APPARATUS-FOR-USE-IN-OPERATING-ON-A-BONE	9044322	2014-07-29	2015-06-02
United-States	WEDGE-APPARATUS-FOR-USE-IN-OPERATING-ON-A-BONE	9050152	2014-12-17	2015-06-09
United-States	CHANGING-RELATIONSHIP-BETWEEN-BONES	7780670	2002-06-05	2010-08-24
United-States	JOINT-SPACER	9044341	2004-01-13	2015-06-02
United-States	METHOD-AND-APPARATUS-FOR-SECURING-A-SUTURE	6569187	2000-10-10	2003-05-27
United-States	METHOD-OF-SECURING-TISSUE	8845699	2012-03-06	2014-09-30
United-States	METHOD-OF-SECURING-BODY-TISSUE	8814902	2006-07-31	2014-08-26
United-States	METHODS-FOR-ROBOTIC-ARTHROPLASTY	9101443	2012-02-29	2015-08-11

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United States	METHODS FOR ROBOTIC ARTHRORPLASTY	8858557	2013-10-29	2014-10-14
United States	METHODS FOR ROBOTIC ARTHRORPLASTY	8840629	2013-10-29	2014-09-23
United States	SEGMENTAL KNEE ARTHRORPLASTY	14/725070	2015-05-29	
United States	SEGMENTAL KNEE ARTHRORPLASTY	14/958967	2015-12-04	
United States	METHOD OF USING ULTRASOUND VIBRATION TO SECURE BODY TISSUE	11/370775	2006-03-08	
United States	METHOD AND APPARATUS FOR USE IN ANCHORING A SUTURE	99/005433	1999-08-09	2005-03-29
United States		08/457293	1995-06-01	
United States		08/472327	1995-06-07	
United States		08/770652	1998-12-19	

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	CELLULAR COMMUNICATIONS EQUIPMENT LLC			
United States	Apparatus, and associated method, for communicating packet data in a SDMA (Space-Division, Multiple Access) communication scheme	US6721302	11/17/2000	4/13/2004
United States	Method for allocating information transfer capacity in mobile communication system	US727410	7/2/2003	10/2/2007
United States	System, mobile station and method for delivering services	US7043261	6/27/2003	5/9/2006
United States	Control of terminal applications in a network environment	US7218923	6/8/2004	5/15/2007
United States	Apparatus and method for scheduling in carrier aggregated communication systems based on a transmit-receive frequency gap band	US8948110	10/2/2012	2/3/2015

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	INNOVATIVE DISPLAY TECHNOLOGIES, LLC			
United States	TRANSMFLECTORS, TRANSMFLECTOR SYSTEMS AND DISPLAYS AND METHODS OF MAKING TRANSMFLECTORS	6827456	2001-12-05	2004-12-07
United States	LIGHT-REDIRECTING FILMS INCLUDING NON-INTERLOCKABLE OPTICAL ELEMENTS	7364341	2004-09-30	2008-04-29
United States	TRANSMFLECTORS, TRANSMFLECTOR SYSTEMS AND DISPLAYS AND METHODS OF MAKING TRANSMFLECTORS	7497599	2006-01-30	2009-03-03
United States	LIGHT-REDIRECTING FILMS, PATTERN OF VARIABLE OPTICAL ELEMENTS	7364342	2006-07-11	2008-04-29
United States	TRANSMFLECTORS, TRANSMFLECTOR SYSTEMS AND DISPLAYS AND METHODS OF MAKING TRANSMFLECTORS	7448775	2006-07-25	2008-11-11
United States	TRANSMFLECTORS, TRANSMFLECTOR SYSTEMS AND DISPLAYS AND METHODS OF MAKING TRANSMFLECTORS	7887227	2008-08-19	2011-02-15
United States	EDGE-LIT PANEL WITH CURVILINEAR LIGHT-EXTRACTING DEFORMITIES	8322905	2011-12-07	2012-12-04
United States	LONG-CURVED WEDGES IN AN OPTICAL FILM	7367705	2005-11-03	2008-05-06

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	LIFEPOINT SCIENCES LLC			
United States	MESH AND STENT FOR INCREASED FLEXIBILITY	6673103	2000-05-16	2004-01-06
United States	METHODS AND APPARATUS FOR TREATING ANEURYSMS AND ARTERIOVENOUS FISTULAS	7006857	2003-06-13	2010-10-05
United States	STAGED DEPLOYMENT ENDOGRAFT	7297156	2006-06-08	2007-11-20
United States	ARTIFICIAL GRAFT AND IMPLANTATION METHOD	6030413	1991-08-29	2000-02-29
United States	INTRALUMINAL GRAFTING SYSTEM	6221102	1995-06-07	2001-04-24
United States	HOOK FOR ATTACHING TO A CORPOREAL LUMEN AND METHOD OF MANUFACTURING	6517573	2000-04-11	2003-02-11
United States	HOOK FOR ATTACHING TO A CORPOREAL LUMEN AND METHOD OF MANUFACTURING	7147662	2002-12-19	2006-12-12
United States	MECHANISM FOR SECURING TO A CORPOREAL LUMEN AND METHOD OF MANUFACTURING	7098194	2010-04-30	2011-08-16
United States	SYSTEM AND METHOD FOR FORMING A JUNCTION BETWEEN ELEMENTS OF A MODULAR ENDOVASCULAR PROSTHESIS	7135037	2000-05-01	2006-11-14
United States	MODULAR GRAFT COMPONENT JUNCTIONS	7226474	2002-03-04	2007-06-05
United States	MODULAR GRAFT COMPONENT JUNCTIONS	9107743	2012-12-20	2015-08-18
United States	ENDOVASCULAR GRAFTING DEVICE	8211166	2003-02-26	2012-07-03
United States	METHOD OF MAKING A STENT GRAFT COVERED WITH EXPANDED POLYTETRAFLUOROETHYLENE	5788626	1996-11-18	1998-08-04
United States	EXPANDABLE STENT GRAFT COVERED WITH EXPANDED POLYTETRAFLUOROETHYLENE	6165211	1997-12-11	2000-12-26
United States	EXPANDABLE STENT GRAFT COVERED WITH EXPANDED POLYTETRAFLUOROETHYLENE	RE40122	2001-06-01	2008-02-26
United States	STENT GRAFT MEMBRANE AND METHOD OF MAKING THE SAME	6156064	1998-08-14	2000-12-05
United States	ENDOLUMINAL STENT	8192482	2001-10-15	2012-06-05
United States	BIFURCATED ENDOLUMINAL PROSTHESIS	7942919	2004-02-23	2011-05-17
United States	BALLOON ASSISTED INTRALUMINAL STENT GRAFT	6402779	1999-07-26	2002-06-11
United States	METHOD OF MAKING LARGE DIAMETER VASCULAR PROSTHESES AND A VASCULAR PROSTHESIS MADE BY SAID METHOD	6187054	1999-02-04	2001-02-13
United States	EXPANDABLE VASCULAR PROSTHESIS	6443981	2000-05-19	2002-09-03

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	METHOD OF MAKING LARGE DIAMETER VASCULAR PROSTHESES AND VASCULAR PROSTHESES MADE BY SAID METHOD	6605119	2000-11-01	2003-08-12
United States	VARIABLE STENT AND METHOD FOR TREATMENT OF ARTERIAL DISEASE	6030414	1997-11-13	2000-02-29
United States	EXPANDABLE STENT-GRAFT COVERED WITH EXPANDED POLYTETRAFLUOROETHYLENE	6524334	2000-04-21	2003-02-25
United States	BIFURGATED GRAFT WITH INCREASING DIAMETER LEG	09/637505	2000-08-11	

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	LMESTONE MEMORY SYSTEMS LLC			
United States	SYNCHRONOUS SEMICONDUCTOR MEMORY HAVING A BURST TRANSFER MODE WITH A PLURALITY OF SUBARRAYS ACCESSIBLE IN PARALLEL VIA AN INPUT BUFFER	5805504	1996-11-29	1998-09-08
United States	METHOD FOR HIGH-SPEED PROGRAMMING OF A NONVOLATILE SEMICONDUCTOR MEMORY DEVICE	5043260	1998-02-20	1999-08-24
United States	SEMICONDUCTOR MEMORY DEVICE WITH REDUNDANCY CIRCUIT	5894441	1998-03-31	1999-04-13
United States	SEMICONDUCTOR MEMORY DEVICE WITH IMPROVED FLEXIBLE REDUNDANCY SCHEME	6233181	1999-02-17	2001-05-15
United States	SEMICONDUCTOR MEMORY DEVICE WITH IMPROVED FLEXIBLE REDUNDANCY SCHEME	6545931	2002-08-28	2003-04-08
United States	CLOCK SYNCHRONOUS SEMICONDUCTOR MEMORY DEVICE	6697296	2002-05-09	2004-02-24

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
	MOBILE ENHANCEMENT SOLUTIONS, LLC			
United States	MOBILE TELEPHONE WITH AMPLIFIED LISTENING	6448080	1998-07-28	2000-11-14
United States	TRANSMISSION SYSTEM WITH IMPROVED SYNCHRONIZATION	6415325	1998-12-16	2002-07-02
United States	PROVIDING IDLE PERIODS IN AN OTHERWISE CONTINUOUS TRANSMISSION TO MONITOR SIGNAL QUALITY IN ALTERNATE COMMUNICATIONS CHANNELS	7173920	2003-03-31	2007-02-06
United States	TRANSMITTING DATA FRAMES WITH LESS INTERFRAME SPACE (IFS) TIME	7317687	2004-07-13	2008-01-08

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	MONARCH NETWORKING SOLUTIONS			
United States	CMOS image sensor and manufacturing method thereof	US6635912	9/7/2001	10/21/2003
United States	Nonvolatile memory with independent access capability to associated buffer	US7334080	5/3/2005	2/19/2008
United States	Non-volatile memory having multiple erase operations	US7581058	12/24/2007	8/25/2009
United States	Semiconductor device with non-volatile memory and random access memory	US8432716	12/6/2010	4/30/2013
United States	Method and system for accessing a peer-to-peer network	US7342928	4/30/2004	3/11/2008
United States	Method and system for protecting a communication network, said communication network including a transport network	US7764602	12/15/2006	7/27/2010
United States	Method for control management based on a routing protocol	US8516148	12/11/2006	8/20/2013
United States	Method and system for the transfer of communication network administration information	US8321544	7/5/2007	11/27/2012
United States	System and method for managing virtual user domains	US7765583	2/28/2005	7/27/2010
United States	Method for controlling routing in a packet network supported by a transport network	US7978687	5/22/2008	7/12/2011
United States	Method and device for creating a tunnel in a label-switched telecommunication network	US7852840	10/29/2007	12/14/2010
United States	Network management method, a system and a device	US9100267	12/4/2007	8/4/2015
United States	System for multicast broadcasting towards at least one roaming user terminal in a mobile IP network	US8000279	6/14/2007	8/16/2011
United States	Method for operating a local computer network connected to a remote private network by an IPsec tunnel, software module and IPsec gateway	US7869451	12/14/2005	1/11/2011
United States	Addressing method for transporting data on a telecommunication network, corresponding address structure signal, gateway and computer program	US7965737	10/30/2008	6/21/2011
United States	Method and apparatus for dynamic assignment of sets of addresses	US8214477	10/1/2008	7/3/2012
United States	IP telephony service interoperability	US8576856	6/27/2008	11/5/2013
United States	Burn-in system for multicast data transmission	US8427994	12/22/2008	4/23/2013
United States	Method of propagating multiple IP telephony routes, and a corresponding location server and computer program	US8514843	10/20/2008	8/20/2013
United States	Method for transmitting a plurality of identifier fields in a packet switch network	US7953091	10/28/2008	5/31/2011

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	System for securing the access to a destination in a virtual private network	US8379511	3/25/2009	2/19/2013
United States	Routing method in a label switching network	US8218432	3/23/2009	7/10/2012
United States	Core router capable of securing the output router of an autonomous system	US8223629	3/20/2009	7/17/2012
United States	Method of routing an SIP message in the event of unavailability of intermediate nodes	US8964524	8/18/2009	2/24/2015
United States	Method of supervising a plurality of units in a communications network	US8826296	6/29/2009	9/2/2014
United States	Method of routing a data packet via a router in a packet communications network supported by a transport network	US8824277	7/14/2009	9/2/2014
United States	Method for organizing packets belonging to streams, and associated equipment	US7933204	12/19/2007	4/26/2011
United States	Packet assembly in a communication network supporting virtual networks	US8155149	7/17/2009	4/10/2012
United States	Service management in a network	US8174965	10/2/2009	5/8/2012
United States	Mechanism for protecting a pseudo-wire	US8130775	11/25/2009	3/6/2012
United States	Method for processing data packets while communicating with a machine via one or more secondary networks	US8130765	5/23/2008	3/6/2012
United States	Method and a device for maintaining an address translation table	US8522317	5/11/2010	8/27/2013
United States	Method of routing a data packet in a network and an associated device	US8693369	9/28/2010	4/8/2014
United States	Mechanism for updating parameters of a session set up through a virtual circuit	US8804749	10/21/2010	8/12/2014
United States	Method of receiving a data packet coming from an IPv4 domain in an IPv6 domain, an associated device, and associated access equipment	US8451844	12/29/2010	5/28/2013
United States	Method of receiving a data packet in an IPv6 domain, an associated device and an associated home gateway	US8451845	12/29/2010	5/28/2013
United States	Method for protecting a pseudo-wire	US8724451	3/8/2011	5/13/2014
United States	Technique for communication between a plurality of nodes	US8797894	1/13/2011	8/5/2014
United States	Service continuity management in a network	US9225752	8/4/2009	12/29/2015
United States	Management of routing topology in a network	US8811226	2/22/2011	8/19/2014
United States	Virtual circuit configuration method	US8599680	6/28/2011	12/3/2013

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Technique for protecting a point-to-multipoint primary tree in a connected mode communications network	US9191221	11/10/2010	11/17/2015
United States	Methods for sending and processing an SIP response	US8804498	6/1/2012	8/12/2014
United States	Management of private virtual networks	US8923162	8/16/2012	12/30/2014
United States	Multipoint-to-point pseudowire	US9083631	8/7/2012	7/14/2015
United States	Method and devices for managing a data flow transfer	US9160547	4/13/2011	10/13/2015
United States	Method and apparatuses for establishing a link between two devices	US9578551	12/18/2012	2/21/2017
United States	Methods and devices for routing data packets between IPv4 and IPv6 networks	US9019965	4/20/2012	4/28/2015
United States	Routing method reducing the consequences of microloops	US9985880	12/14/2015	5/29/2018
United States	Routing method reducing the consequences of microloops	US15966162	4/30/2018	

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
	NEXUS DISPLAY TECHNOLOGIES, LLC			
United States	SYSTEM AND METHOD FOR SENDING MULTIPLE DATA SIGNALS OVER A SERIAL LINK	5835498	1996-06-14	1998-11-10
United States	SYSTEM FOR HIGH SPEED SERIAL VIDEO SIGNAL TRANSMISSION USING DC-BALANCED CODING	5974464	1996-09-30	1999-10-26
United States	METHODS AND SYSTEMS FOR TMDS ENCRYPTION	6870930	2000-05-26	2005-03-22
United States	AUXILIARY DATA TRANSMITTED WITHIN A DISPLAY'S SERIALIZED DATA STREAM	7143328	2001-08-29	2006-11-28
United States	AUXILIARY DATA TRANSMITTED WITHIN A DISPLAY'S SERIALIZED DATA STREAM	7555693	2006-07-17	2009-06-30
United States	METHOD AND SYSTEM FOR TRANSMITTING N-BIT VIDEO DATA OVER A SERIAL LINK	7599439	2005-06-24	2009-10-06
United States	METHOD AND SYSTEM FOR TRANSMITTING OR RECEIVING N-BIT VIDEO DATA OVER A SERIAL LINK	8311126	2009-07-13	2012-11-13
United States	METHOD AND APPARATUS FOR SYNCHRONIZING AUXILIARY DATA AND VIDEO DATA TRANSMITTED OVER A TMDS-LIKE LINK	7295578	2001-09-12	2007-11-13

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
	PARTHENON UNIFIED MEMORY ARCHITECTURES, LLC			
United States	METHOD AND APPARATUS FOR DISPLAYING VIDEO	7206344	2000-04-26	2007-04-17
United States	MICROPROCESSOR WITH EXTERNAL MEMORY INTERFACE OPTIMIZED BY AN EARLY DECODE SYSTEM	6393501	1999-05-12	2002-05-21

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
	R2 SOLUTIONS LLC			
United States	System and method for personalized information filtering and alert generation	US6381504B1	7/11/2000	4/30/2002
United States	Brilliant query system	US6546386B1	10/31/2000	4/8/2003
United States	Meta tag based data mining	US7464086B2	9/14/2001	12/9/2008
United States	Tagged e-commerce system	US7025418B2	12/15/2000	4/20/2010
United States	Technique for deleting duplicate records, referenced in an index of a database	US6745194B2	8/3/2001	6/1/2004
United States	Offline-online interactive points system and method	US7424617B2	12/31/2003	9/9/2008
United States	Systems and methods for identifying and extracting data from HTML pages	US6920609B1	8/24/2000	7/19/2005
United States	System and methods for implementing code translations that enable persistent client-server communication via a proxy	US7058699B1	8/29/2000	6/6/2006
United States	Intelligent voice converter	US7327696B1	3/27/2003	2/5/2008
United States	Intelligent voice bridging	US6556563B1	9/11/2000	4/29/2003
United States	Message store architecture	US6580786B1	9/11/2000	6/17/2003
United States	Voice integrated VQIP system	US7760705B2	9/29/2004	7/20/2010
United States	Intelligent voice converter	US6567410B1	9/11/2000	5/20/2003
United States	Voice integrated VQIP system	US7095733B1	9/11/2000	8/22/2006
United States	Web page connectivity server configuration	US6701317B1	9/19/2000	3/21/2004
United States	Web page connectivity server	US6598051B1	9/19/2000	7/22/2003
United States	Web page connectivity server configuration	US7260583B2	12/16/2003	8/21/2007
United States	Method and apparatus for ranking Web page search results	US6560600B1	10/25/2000	5/6/2003
United States	Method and apparatus for ranking web page search results	US6871202B2	5/6/2003	3/22/2005
United States	Method for estimating coverage of web search engines	US7308445B2	1/21/2004	12/11/2007
United States	Online playback system with community bias	US7454509B2	7/10/2001	11/18/2008
United States	Multi-language system for online communications	US7870001B2	6/16/2008	1/11/2011
United States	Multi-language system for online communications	US7418390B1	11/20/2000	8/26/2008
United States	Apparoch for managing and providing content to users	US7243136B2	1/17/2001	7/10/2007

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United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US7136860B2	1/19/2001	11/14/2006
United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US7447691B2	5/11/2005	11/14/2008
United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US0804173B2	1/17/2017	2/13/2018
United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US0600557B2	4/8/2013	3/21/2017
United-States	System-and-method-to-determine-the-validity-of-and-interaction-on-a network	US7933903B2	1/22/2010	4/26/2011
United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US0423543B2	2/24/2011	4/16/2013
United-States	System-and-method-to-determine-the-validity-of-an-interaction-on-a network	US7668861B2	9/20/2007	2/23/2010
United-States	High-performance-client-server-communication-system	US7325030B2	1/25/2001	1/29/2008
United-States	Distributed-active-knowledge-and-processes-base-allowing-system elements-to-be-shared-within-a-collaborative-framework	US7032006B2	1/26/2001	4/18/2006
United-States	Systems-and-methods-for-predicting-traffic-on-internet-sites	US7558865B2	10/1/2004	7/7/2009
United-States	Systems-and-methods-for-predicting-traffic-on-internet-sites	US6801945B2	1/31/2001	10/5/2004
United-States	System-and-method-for-managing-advertising-inventory-to-maximize advertising-revenue	US7546249B2	2/6/2001	6/9/2009
United-States	System-and-method-for-detecting-and-verifying-digitalized-content-over-a computer-network	US7853670B2	6/16/2008	12/14/2010
United-States	System-and-method-for-detecting-and-verifying-digitalized-content-over-a computer-network	US7406529B2	2/9/2001	7/29/2008
United-States	Search-engine-for-selecting-targeted-messages	US6778975B1	3/5/2001	8/17/2004
United-States	Method-and-system-for-indexing-information-and-providing-results-for-a search-including-objects-having-predictedetermination-attributes	US10210222B2	3/12/2014	2/19/2019
United-States	Method-and-system-for-indexing-information-and-providing-results-for-a search-including-objects-having-predictedetermination-attributes	US6171010B2	10/19/2009	5/1/2012
United-States	Method-and-system-for-indexing-information-and-providing-results-for-a search-including-objects-having-predictedetermination-attributes	US0031942B2	3/29/2012	5/12/2015
United-States	Method-and-system-for-indexing-information-and-providing-results-for-a search-including-objects-having-predictedetermination-attributes	US7620622B1	3/8/2001	11/17/2009

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Global network of web-based systems and method thereof	US7512666B2	4/18/2004	3/31/2009
United-States	Relationship discovery engine	US6044588B2	12/6/2002	10/15/2009
United-States	Relationship discovery engine	US6352331B2	4/30/2001	1/8/2003
United-States	Content-related wallpaper	US6271333B1	10/30/2001	9/18/2002
United-States	System for controlling and enforcing playback restrictions for a media file-by-splitting the media file into usable and unusable portions for playback	US7024485B2	11/8/2002	4/4/2006
United-States	System for controlling and enforcing playback restrictions for a media file-by-splitting the media file into usable and unusable portions for playback	US7315899B2	4/28/2005	1/14/2008
United-States	File-splitting, scalable coding, and asynchronous transmission in stream-coded data transfer	US7975065B2	10/31/2007	7/5/2011
United-States	Relationship discovery engine	US8005724B2	3/26/2003	8/23/2011
United-States	Information retrieval engine	US7162482B1	6/11/2002	1/9/2007
United-States	Information retrieval engine	US7720852B2	6/22/2006	5/18/2010
United-States	Determining a known character string equivalent to a query string	US7251665B1	5/3/2001	7/31/2007
United-States	Determining a known character string equivalent to a query string	US7546316B2	6/14/2007	6/9/2009
United-States	Method and system for providing advertisement information in response to demographic inquiries	US8060416B2	5/7/2001	11/15/2011
United-States	Method and apparatus for accessing targeted, personalized voice/audio web-content through wireless devices	US7206745B2	3/8/2004	4/17/2007
United-States	Method and apparatus for accessing targeted, personalized voice/audio web-content through wireless devices	US6728731B2	5/15/2001	4/27/2004
United-States	Online media exchange	US7962363B2	11/22/2002	6/14/2011
United-States	Load balancing system and method in a multiprocessor system	US7203747B2	5/25/2001	4/10/2007
United-States	Centralized feed manager	US6135805B2	9/14/2000	3/13/2002
United-States	Centralized feed manager	US7177931B2	5/31/2001	2/13/2007
United-States	Centralized feed manager	US8392536B2	3/8/2012	3/5/2013
United-States	Centralized feed manager	US7792926B2	11/6/2006	9/7/2010
United-States	Efficient data transactions based on a policy	US7136935B2	6/22/2001	11/14/2006
United-States	Financial information portal	US7640210B2	2/12/2008	12/29/2009

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Financial information portal	US7370011B2	6/28/2001	5/6/2008
United States	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	US7051119B2	7/12/2001	5/23/2006
United States	Method and system for enabling a script on a first computer to exchange data with a script on a second computer over a network	US7076479B1	8/3/2001	7/11/2006
United States	Secure engine account monitoring	US7043471B2	3/28/2002	5/9/2006
United States	Secure engine account monitoring	US7483886B2	5/9/2006	1/27/2009
United States	Technique for license management and on-line software license enforcement	US7890430B2	1/6/2009	2/15/2011
United States	System and method of sending chunks of data over wireless devices	US7143181B2	8/24/2001	11/28/2006
United States	Reduction of meta data in a network	US6892206B2	8/24/2001	5/10/2005
United States	Data list transaction initiation and input mapping	US6950994B2	8/24/2001	9/27/2005
United States	System and method for controlling user data from a content provider and user data from an advertising provider that is stored on a user's mobile system	US7257546B2	9/4/2001	8/14/2007
United States	Targeted advertisements using time dependent key search terms	US7007074B2	9/10/2001	2/28/2006
United States	System and method for enhancing crawling by extracting requests for webpages in an information flow	US7093012B2	9/13/2001	8/15/2006
United States	Cooperative management of distributed network caches	US7203754B2	3/2/2005	4/10/2007
United States	Cooperative management of distributed network caches	US7117262B2	10/30/2001	10/3/2006
United States	System and method allowing advertisers to manage search listings in a pay-for-placement search system using grouping	US7698315B2	5/8/2006	4/13/2010
United States	System and method allowing advertisers to manage search listings in a pay-for-placement search system using grouping	US6826572B2	11/13/2001	11/30/2004
United States	System and method allowing advertisers to manage search listings in a pay-for-placement search system using grouping	US7043483B2	6/8/2004	5/9/2006
United States	Retrieval system for search system using grouping	US7184972B2	12/14/2001	2/27/2007
United States	Providing instantaneous grouping functionality in an instantaneous grouping environment	US7359943B2	1/22/2002	4/15/2008
United States	Method for ranking web page search results	US7308461B1	1/24/2002	7/8/2008

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United-States	Method-based network API	US0296462B2	12/28/2010	10/23/2012
United-States	Method-based network API	US7870293B2	2/15/2002	1/11/2011
United-States	Content-based billing	US0331983B2	2/15/2002	5/3/2016
United-States	Proxy-client-server communication system	US7103671B2	3/14/2002	9/5/2006
United-States	Using network traffic logs for search enhancement	US7398271B1	4/16/2002	7/8/2008
United-States	Using network traffic logs for search enhancement	US0203952B2	7/7/2008	6/19/2012
United-States	Using network traffic logs for search enhancement	US7996397B2	7/7/2008	8/9/2011
United-States	Using network traffic logs for search enhancement	US0509266B2	6/8/2012	8/13/2013
United-States	Providing self-improving search engine	US0976019B2	4/19/2002	12/13/2005
United-States	Providing self-improving search engine	US7716235B2	11/18/2005	5/11/2010
United-States	Computer system of data signals using character-specific electronic thumbnails	US0839214B2	4/3/2012	3/5/2013
United-States	Computer system of data signals using character-specific electronic thumbnails	US0620626B2	9/14/2012	12/31/2013
United-States	Computer system of data signals using character-specific electronic thumbnails	US0659091B2	11/14/2013	5/23/2017
United-States	Computer system of data signals using character-specific electronic thumbnails	US0160840B2	11/30/2010	4/17/2012
United-States	Computer system of data signals using character-specific electronic thumbnails	US7853438B2	7/31/2008	12/14/2010
United-States	Computer system of data signals using character-specific electronic thumbnails	US7421375B1	4/24/2002	9/2/2008
United-States	Use of extensible markup language in a system and method for information processing and search result presentation by a computer network search engine	US7054857B2	5/9/2002	5/30/2006
United-States	Use of extensible markup language in a system and method for information processing and search result presentation by a computer network search engine	US7698281B2	5/25/2006	4/13/2010
United-States	Method and apparatus for categorizing and presenting documents of a distributed database	US0260786B2	2/17/2005	9/4/2012
United-States	Method and apparatus for categorizing and presenting documents of a distributed database	US7231395B2	5/24/2002	6/12/2007

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jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Method and apparatus for categorizing and presenting documents of a distributed database	US7792810B2	4/28/2006	9/7/2010
United States	Method and apparatus for accelerating and improving access to network files	US7228317B1	6/18/2002	6/5/2007
United States	Method and apparatus for search ranking using human input and automated ranking	US7599911B2	8/5/2002	10/6/2009
United States	System and method for conducting a selection based ranking of search results on a computer network	US7555485B2	8/22/2002	6/30/2009
United States	System and method for conducting a selection based ranking of search results on a computer network	US7702672B2	5/28/2009	4/20/2010
United States	Automated processing of apparatuses detecting elimination of content for search listings in wide-area network searches	US6983280B2	9/13/2002	1/3/2006
United States	Associating documents with classification and ranking documents based on classification weights	US9047370B2	4/1/2009	6/2/2015
United States	Associating documents with classification and ranking documents based on classification weights	US7028027B1	9/30/2002	4/11/2006
United States	Associating documents with classification and ranking documents based on classification weights	US7533119B2	1/18/2006	5/12/2009
United States	Information retrieval system and method employing spatially selective features	US7707140B2	10/9/2002	4/27/2010
United States	Systems and methods for selecting a date or range of dates	US7278111B2	12/26/2002	10/2/2007
United States	Query-string matching method and apparatus	US7734565B2	1/28/2003	6/8/2010
United States	Query-string matching method and apparatus	US6901113B2	4/22/2010	8/16/2011
United States	Method for embedding a component in a base	US7294520B2	9/23/2004	11/13/2007
United States	Method for embedding a component in a base	US6368201B2	7/18/2011	2/5/2013
United States	Method for embedding a component in a base and forming a contact	US6991966B2	9/23/2004	1/31/2006
United States	Method for embedding a component in a base	US7732909B2	5/4/2007	6/8/2010
United States	Suggesting an alternative to the spelling of a search query	US7440941B1	2/10/2003	10/21/2008
United States	Generating descriptions of matching resources based on the kind, quality, and relevance of available sources of information about the matching resources	US6745044B2	7/11/2008	6/3/2014

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jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Generating descriptions of matching resources based on the kind, quality, and relevance of available sources of information about the matching resources	US7406450B1	2/11/2003	7/20/2008
United States	Generating descriptions of matching resources based on the kind, quality, and relevance of available sources of information about the matching resources	US0280603B2	6/3/2014	3/8/2016
United States	System and method for mobile electronic messaging	US6813489B1	2/26/2003	11/2/2004
United States	Displaying paid search listings in proportion to advertiser spending	US6001103B2	7/31/2008	8/16/2011
United States	Displaying paid search listings in proportion to advertiser spending	US7454409B2	3/31/2003	11/18/2008
United States	Associating and linking compact disc metadata	US707221B1	4/2/2003	4/27/2010
United States	Associating and linking compact disc metadata	US7984062B2	6/8/2009	7/19/2011
United States	Affinity analysis method and article of machine-readable	US6873996B2	4/16/2003	3/29/2005
United States	Method and apparatus for machine-learning a document relevance function	US7197497B2	4/25/2003	3/27/2007
United States	Systems and methods for relating events to a date or date range selection	US7496857B2	4/25/2003	2/24/2009
United States	Method and system for blending search engine results from disparate sources into one search result	US7219090B2	4/25/2003	5/15/2007
United States	Detection of improper search queries in a wide area network search engine	US0166014B2	5/2/2003	4/24/2012
United States	Method and system for controlling and monitoring a web host	US7849152B2	6/9/2003	12/7/2010
United States	System and method for providing a webpage	US7111229B2	6/25/2003	9/19/2006
United States	System and method for instant messaging using an e-mail protocol	US7406501B2	6/30/2003	7/29/2008
United States	Distribution of search phrases using interpretation clusters	US7225184B2	7/18/2003	5/29/2007
United States	Apparatus, system and method for use in generating and maintaining an electronic address book	US7539699B2	7/21/2003	5/26/2009
United States	Centrally controlled instant messaging system	US7240214B2	8/8/2003	7/3/2007
United States	Selecting among advertisement components competing for a slot associated with electronic content delivered over a network	US0380572B2	8/25/2003	2/19/2013
United States	Content delivery frequency weighting method	US7359952B2	8/25/2003	4/15/2008
United States	Slideout windows	US7325204B2	8/29/2003	1/29/2008

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United States	Method and apparatus for providing desktop application functionality in a client/server architecture	US7890961B2	8/29/2003	2/15/2011
United States	On-line software rental	US7523071B2	9/16/2003	4/21/2009
United States	On-line software rental	US8583558B2	4/20/2009	11/12/2013
United States	Visibly distinguishing portions of compound words	US7747428B1	9/24/2003	6/29/2010
United States	Visibly distinguishing portions of compound words	US7464020B1	9/24/2003	12/9/2008
United States	Learned input time estimate module	US7840646B2	10/9/2003	11/23/2010
United States	Method and system for creating, serving and tracking advertisement elements	US8009999B2	10/28/2003	8/16/2011
United States	Canonicalization of terms in a keyword based presentation system	US7007014B2	11/7/2003	2/29/2006
United States	Canonicalization of terms in a keyword based presentation system	US7401074B2	11/17/2005	7/15/2008
United States	Country tagging	US7441044B2	11/10/2003	10/21/2008
United States	Systems and methods for search query processing using trend analysis	US7562076B2	5/30/2007	7/14/2009
United States	Systems and methods for generating concept units from search queries	US7051023B2	11/12/2003	5/23/2006
United States	Systems and methods for search query processing using trend analysis	US7240049B2	11/12/2003	7/3/2007
United States	Method and apparatus for assisting with playback of remotely stored media files	US7590711B2	4/17/2007	9/15/2009
United States	Method and apparatus for assisting with playback of remotely stored media files	US8775659B2	2/5/2010	7/9/2014
United States	Method and apparatus for assisting with playback of remotely stored media files	US7673062B2	11/18/2003	3/2/2010
United States	Method and apparatus for assisting with playback of remotely stored media files	US8459082	1/31/2014	2/28/2017
United States	Method and apparatus for performing a search	US7844589B2	12/1/2003	11/30/2010
United States	Method and apparatus for performing a search	US8201963B2	11/9/2010	12/1/2015
United States	Click-through rate ranking of images and other data	US7634472B2	12/5/2003	12/15/2009
United States	Communication among browser windows	US8528003B2	1/6/2004	9/3/2013
United States	Listing optimization using a plurality of data sources	US7617203B2	1/6/2004	11/10/2009
United States	Value system for dynamic composition of pages	US7574651B2	1/15/2004	8/11/2009
United States	Dynamic pari-mutuel market	US7881588B2	2/3/2004	8/31/2010
United States	System and method for providing an improved graphical user interface for search	US7337185B2	2/20/2004	2/26/2008

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	System and method for providing an improved graphical user interface for search	US7908289B2	9/24/2007	3/45/2011
United States	Single-layer component package	US8817485B2	10/21/2009	8/26/2014
United States	Electronic module	US7609527B2	10/17/2007	10/27/2009
United States	Method for manufacturing an electronic module	US7290546B2	8/25/2005	11/27/2007
United States	Electronic module	US10085345B2	8/25/2014	9/25/2018
United States	Product data classification	US7672877B1	2/26/2004	3/2/2010
United States	Associating product offerings with product advertising	US8868554B1	2/26/2004	10/21/2014
United States	Scoring mechanism selection along multiple dimensions	US7359898B1	2/26/2004	4/15/2008
United States	Suggesting an alternative to the spelling of a search query	US7672927B1	2/27/2004	3/2/2010
United States	Keyword recommendation for internet search engines	US8676830B2	3/4/2004	3/18/2014
United States	Method and system of providing browser functionality through a browser button	US7506260B2	3/5/2004	3/17/2009
United States	Method and system of providing customizable buttons	US7793227B2	3/5/2004	9/7/2010
United States	Vector analysis of histograms for units of a concept network in search query processing	US7340460B1	3/9/2004	3/4/2008
United States	Systems and methods for search processing using superunits	US7346629B2	3/9/2004	3/18/2008
United States	Predicting inventory availability and prioritizing the serving of competing advertisements based on context value	US7895077B2	3/11/2004	2/22/2011
United States	Method and system for finding related nodes in a social network	US7016307B2	3/11/2004	3/21/2006
United States	Detecting system abuse	US7533414B1	3/17/2004	5/12/2009
United States	Method and system of controlling a context menu	US7721228B2	3/18/2004	5/18/2010
United States	Compilation of page authority weights using personalized bookmarks	US7343374B2	3/29/2004	3/11/2008
United States	Delivering items based on links to resources associated with search results	US7359893B2	3/31/2004	4/15/2008
United States	Electronic module with a conductive pattern layer and a method of manufacturing same	US8034658B2	11/16/2009	10/11/2011
United States	Method for manufacturing an electronic module and an electronic module	US9363898B2	2/17/2015	6/7/2016
United States	Content bridge for associating host content and guest content wherein guest content is determined by search	US7107264B2	3/31/2004	9/12/2006

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Electric module having a conductive pattern layer	US0222723B2	2/3/2010	7/17/2012
United States	Method for manufacturing an electronic module and an electronic module	US0704359B2	5/31/2011	4/22/2014
United States	Electronic module with a conductive pattern layer and a method of manufacturing same	US7663215B2	9/23/2005	2/16/2010
United States	Universal search interface systems and methods	US7698327B2	4/5/2004	4/13/2010
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US0262530B2	9/25/2014	2/16/2016
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US0271480B2	1/15/2009	9/18/2012
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US0849796B2	8/30/2012	9/30/2014
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US7490914B2	4/5/2004	3/3/2009
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US0232848B2	12/31/2014	4/26/2016
United States	Search system using search subdomains and hints to subdomains in search query statements and processor results on a subdomain by subdomain basis	US7487455B2	4/19/2004	2/3/2009
United States	Techniques for simulating a display of a web browser window and a network device connected to a network	US7483891B2	4/21/2004	1/27/2009
United States	Method of providing a social network user with a social network user display and a user interface	US7269590B2	4/26/2004	9/11/2007
United States	Displaying a user interface by a selected other user based on their authorization level	US0166069B2	3/29/2006	4/24/2012
United States	Content for a website and a user interface to a user interface to a website	US0584258B2	12/20/2005	11/12/2013
United States	Content for a website and a user interface to a user interface to a website	US7599935B2	12/20/2005	10/6/2009

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United-States	System-and-method-for-providing-automobile-marketing-research information	US73739142B2	5/17/2004	6/15/2010
United-States	Mapping method and system	US6607092B2	5/15/2005	3/19/2017
United-States	Social-network-with-multiple-logins	US69978041B2	8/3/2011	5/12/2018
United-States	Social-network-with-fixed-level-control-of-data-exposure	US6953302B2	8/3/2011	4/14/2018
United-States	Query-based-search-engine	US7814096B1	6/8/2004	10/12/2010
United-States	Method-and-system-for-receiving-online-social-network-contents	US7085931B2	6/8/2004	2/9/2011
United-States	Social-network-for-receiving-data-sharing	US6978042B2	8/3/2011	5/12/2018
United-States	Social-network-for-providing-recommendations-for-items-of-interest	US10049345B2	8/3/2011	8/14/2018
United-States	Computerized method and system for establishing a network connection based on a contact list automatically received from network behavioral analysis of a user	US10062054B2	2/7/2011	8/28/2018
United-States	Method-and-system-for-sharing-profile-subscriber-information-in-an online-social-network	US6612359B2	6/14/2004	11/17/2013
United-States	Method-and-system-for-selecting-electronic-advertisings	US6527346B2	6/28/2004	9/3/2013
United-States	Methods-to-attribute-conversions-for-online-advertisements-to-multiple parties	US6108254B2	6/29/2004	1/31/2012
United-States	Database-and-search-system-and-method-of-determining-a-value-of-a keyword-in-a-search	US716210B2	7/8/2004	5/11/2010
United-States	System-and-method-for-managing-a-trusted-email-database	US7155738B2	7/8/2004	11/26/2006
United-States	Method-and-system-for-managing-links-for-site-visits-on-different platforms	US7640498B2	7/9/2004	11/29/2009
United-States	System-and-method-for-adaptive-recommendation-to-deusers	US6706722B2	5/31/2012	4/22/2014
United-States	System-and-method-for-adaptive-recommendation-to-referees-to-deusers	US7539674B2	7/12/2004	5/16/2009
United-States	System-and-method-for-adaptive-recommendation-of-references-to-deusers	US6214358B2	7/9/2008	7/3/2012
United-States	User-interface-for-search-systems-using-in-line-contextual queries	US6812540B2	9/28/2012	8/19/2014
United-States	Systems-and-methods-for-contextual-traction-proposals	US7451152B2	5/12/2005	11/11/2008
United-States	Search-systems-and-methods-using-in-line-contextual queries	US7958115B2	7/29/2004	6/7/2011
United-States	User-interface-for-search-systems-using-in-line-contextual queries	US8108385B2	9/3/2009	1/31/2012
United-States	User-interface-for-search-systems-using-in-line-contextual queries	US7603349B1	1/10/2005	10/13/2009

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United States	User interfaces for search systems using in-line contextual queries	US0301614B2	1/7/2012	10/30/2012
United States	Document modification by a client-side application	US0972856B2	9/26/2008	3/3/2015
United States	User interfaces for search systems using in-line contextual queries	US0342602B2	7/9/2014	5/17/2016
United States	Search systems and methods using in-line contextual queries	US0655872B2	10/15/2008	2/18/2014
United States	Systems and methods for updating query results based on query deltas	US720845B2	8/13/2004	5/18/2010
United States	Automatic product categorization	US787003B1	8/17/2004	1/11/2011
United States	Backup and restore mirror database memory items in the historical record backup associated with the client application in a mobile device connected to a communication network	US7584225B2	9/2/2004	9/1/2009
United States	Splice filter for financial data represented as discrete values time series	US7685041B1	9/8/2004	3/23/2010
United States	Method for manufacturing an electronic module in an installation base	US7696005B2	9/15/2004	4/13/2010
United States	Method for manufacturing an electronic module	US0232658B2	4/2/2010	1/5/2016
United States	System and method of information filtering using measures of affinity of a relationship	US7707122B2	9/21/2004	4/27/2010
United States	Electronic module with feed through conductor between wiring patterns	US045594B2	7/23/2010	6/4/2013
United States	Method for embedding a component in a base	US7989944B2	7/25/2007	8/2/2011
United States	Method and apparatus for efficient training of support vector machines	US7440944B2	9/24/2004	10/21/2008
United States	Method for providing a clip for viewing at a remote device	US8112548B2	9/28/2004	2/7/2012
United States	Navigation pattern on a directory tree	US7343568B2	10/5/2004	3/11/2008
United States	Techniques for selectively performing searches against data and providing search results	US7747638B1	10/13/2004	6/20/2010
United States	Systems and methods for a search-based email client	US10182025B2	6/21/2016	1/15/2019
United States	Systems and methods for indexing content for fast and scalable retrieval	US7849063B2	10/15/2004	12/7/2010
United States	Systems and methods for indexing content for fast and scalable retrieval	US7620624B2	10/15/2004	11/17/2009
United States	Systems and methods for a search-based email client	US0438540B2	4/1/2013	9/6/2016
United States	System and method for a subscription model trusted email database for use in anti-spam	US7181764B2	10/28/2004	2/20/2007
United States	Method and system of providing dynamic dialogs	US7412655B2	11/2/2004	8/12/2008
United States	Customized geographic location indexing	US0051087B2	9/30/2008	11/1/2011
United States	Optimal storage and retrieval of XML data	US7403940B2	11/16/2004	7/22/2008

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Systems and Methods for Providing Notification And Feedback Based On Electronic Payment Transactions	US10991539	11/17/2004	
United States	Automated generation of taxonomic codes for categorizing queries and search query processing using taxonomies	US7428533B2	12/6/2004	9/23/2008
United States	Search processing with automated categorization of queries	US7620628B2	12/6/2004	11/17/2009
United States	System and methods for ranking the relative value of terms in a multi-term search query using deletion prediction	US7406465B2	12/14/2004	7/29/2008
United States	Bitmask access for managing blog content	US7689575B2	12/29/2004	3/30/2010
United States	Search systems and methods using enhanced contextual queries	US7856441B1	1/10/2005	12/21/2010
United States	Reputation based search	US7406466B2	1/14/2005	7/29/2008
United States	System and method for improving online search engine results	US7599966B2	1/28/2005	10/6/2009
United States	Method and apparatus for providing real-time notification for avatars	US7865566B2	1/31/2005	1/4/2011
United States	Method and apparatus for providing flash-based avatars	US7707520B2	1/31/2005	4/27/2010
United States	Predictive communication routing using instant message routing preferences and/or settings for routing packet traffic for voice, video, and other multimedia communications	US80223747B2	2/10/2005	7/17/2012
United States	Integrated instant messaging, routing and telephony services billing system	US7634072B2	2/10/2005	12/15/2009
United States	Scalable interfacing for instant messaging and internet telephony across wireless networks	US7260082B2	2/10/2005	8/21/2007
United States	System and method for proximity area network for selection of messages	US8265654B2	7/20/2011	9/11/2012
United States	System and method for proxy area network for mobile roaming	US8989727B2	9/5/2012	3/24/2015
United States	System and method for wireless communication between proxy user and non-proxy users	US8023920B2	2/27/2009	9/20/2011
United States	System and method for profile filtered messages	US8249566B2	7/20/2011	8/21/2012
United States	System and method for portable profiles	US8478247B2	7/20/2011	7/2/2013
United States	System and method for file filtered advertisements	US8478254B2	8/20/2012	7/2/2013
United States	System and method for wireless communication between proxy user and non-proxy users	US7545784B2	2/10/2005	6/9/2009
United States	World modeling using a relationship network with communication channels to entities	US7747648B1	2/14/2005	6/29/2010

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United States	Techniques for crawling dynamic web content	US7536380B1	2/22/2005	5/19/2009
United States	Techniques for crawling dynamic web content	US6024384B2	4/13/2009	9/20/2011
United States	Databases replication across different databases platforms	US7702698B1	3/4/2005	4/20/2010
United States	Ranking and increasing the relevance of the results of Internet searches	US7574436B2	3/10/2005	8/11/2009
United States	System for modifying queries before presentation to a sponsored search engine or other matching system where modification improves coverage without a corresponding reduction in relevance	US7668808B2	3/10/2005	2/23/2010
United States	Tester for determining the validity of a feature in a remote device	US7630708B2	3/11/2005	12/8/2009
United States	Systems and methods for collecting user annotations	US7599950B2	3/15/2005	10/6/2009
United States	Inverse search systems and methods	US6150825B2	3/15/2005	4/3/2012
United States	Inverse search systems and methods	US6396853B2	3/14/2012	3/12/2013
United States	Inverse search systems and methods	US6612417B2	3/4/2013	12/17/2013
United States	Search system and methods with integration of user annotations from a trust network	US6788492B2	3/15/2005	7/22/2014
United States	Inverse search systems and methods	US6866278B2	12/11/2013	11/11/2014
United States	Search systems and methods with integration of user annotations	US6005850B2	3/15/2005	8/23/2011
United States	Integration of personalized portals with web content synchronization	US6020106B2	3/15/2005	9/13/2011
United States	Search systems and methods with integration of aggregate user annotations	US6005835B2	3/15/2005	8/23/2011
United States	Search systems and methods with integration of user annotations	US6489463B2	5/10/2011	11/8/2016
United States	Search system and methods with integration of user annotations from a trust network	US6852187B2	5/30/2014	12/26/2017
United States	Search system and methods with integration of aggregate user annotations	US6984164B2	7/28/2011	5/29/2018
United States	Customizable filters for personalized search	US6412698B1	4/7/2005	4/2/2013
United States	Closed-loop feedback control system for online services	US7908240B1	4/13/2005	3/15/2011
United States	Heat exchanger from an embedded component	US6076586B2	2/9/2007	12/13/2011
United States	Electronics module comprising an embedded microdevice	US6351214B2	5/4/2010	1/8/2013
United States	System and method for providing search results in response to a search query	US7577651B2	4/28/2005	8/18/2009

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United States	Method and apparatus for performing a search	US7510581B2	5/21/2005	4/14/2009
United States	System and methods for identifying the potential advertising value of terms found on web pages	US7685197B2	5/5/2005	3/23/2010
United States	Proxy-server for relaying VOIP messages	US7313134B2	5/12/2005	12/25/2007
United States	Selecting a network based on metrics for real-time communication	US7313133B2	5/12/2005	12/25/2007
United States	Dynamically selecting CODECS for streaming audio-video messages	US7821953B2	5/13/2005	10/26/2010
United States	Relay-server for SIP/RTP messages with buffer management	US7751316B2	5/13/2005	7/6/2010
United States	Intergrating access to audio messages and instant messages with VOIP	US8107495B2	5/13/2005	1/31/2012
United States	Content management system for user behavior targeting	US8180769B2	6/2/2005	5/15/2012
United States	Statistical approach to automatic gain control for streaming audio messages over a network	US778407B2	5/16/2005	8/17/2010
United States	Apparatus and method for normalizing user-selected keywords in a folksonomy	US7685209B1	6/8/2005	3/23/2010
United States	Active-Addresses	US7606794B2	6/28/2005	10/20/2009
United States	Method for managing a set of electronic modules employing a component-electrically-connected-to-a-oneductor-patch antenna	US8240032B2	6/13/2005	8/14/2012
United States	Communication platform and method for packet communication between a-service-provider-and-a-radio-communication-device	US8477664B2	9/13/2010	7/2/2013
United States	Communication platform and method for packet communication between a-service-provider-and-a-radio-communication-device	US8089610B2	6/15/2005	8/30/2011
United States	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	US7848233B2	6/15/2005	12/7/2010
United States	System and method for determining a relevance rank for a point-of interest	US7826965B2	6/16/2005	11/2/2010
United States	Access control systems and methods using visibility tokens with automatic propagation	US7594259B2	6/27/2005	9/23/2009
United States	Content router asynchronously exchange	US7631045B2	7/14/2005	12/8/2009
United States	System and method for securing a user device	US7788352B2	7/14/2005	8/31/2010
United States	Alert mechanism for notifying multiple user devices about a detected data-set	US8112549B2	7/14/2005	2/7/2012
United States	Content router notification	US7623515B2	7/14/2005	11/24/2009

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	User-centric interface and content management to search system	US0364650B2	11/17/2008	11/20/2013
United-States	Universal calendar event handling	US0417782B2	7/14/2005	4/9/2013
United-States	Automatically generate a search result in a separate window for a displayed symbol that is selected with a drag and drop control	US7827503B2	7/27/2005	11/2/2010
United-States	Reorder browser identifier and extraction of the original page from the browser	US7606816B2	7/28/2005	10/20/2009
United-States	Establishing communication between a network client and a remote device using a browsing application	US7506029B2	8/3/2005	3/17/2009
United-States	Link-based group detection	US7533092B2	8/4/2005	5/12/2009
United-States	Management of a layer including a component	US7673387B2	8/4/2005	3/9/2010
United-States	Circuit board including an embedded component	US0487194B2	2/9/2010	7/16/2013
United-States	Alternative search query processing in a bidding system	US7752220B2	8/10/2005	7/16/2010
United-States	System and method for detecting a search query	US7634462B2	8/10/2005	12/15/2009
United-States	Browser-based, automated web host dynamically detection, dead link detection and prerequisite page discovery for search indexed web pages	US7610267B2	8/13/2005	10/27/2009
United-States	Searchable specification of pages for ads	US7584267B2	8/22/2005	9/1/2009
United-States	Employing prior art evaluation to provide a page	US0046678B2	8/22/2005	10/25/2011
United-States	Customization of an online shopping experience	US7756752B2	8/22/2005	7/13/2010
United-States	Extraction and matching of characteristics from user signals	US7516074B2	9/1/2005	4/7/2009
United-States	Extraction and matching of characteristics from user signals	US0396705B2	2/24/2009	3/12/2013
United-States	Extraction and matching of characteristics from user signals	US0208790B2	3/11/2013	12/8/2015
United-States	System and method for presenting information based on publisher-selected labels	US0478792B2	7/2/2008	7/2/2013
United-States	System and method for selecting advertising in a social bookmarking system	US0768772B2	11/14/2005	7/1/2014
United-States	System and method for bookmarking and auto-tagging a content item based on file type	US0224788B2	1/15/2009	7/17/2012
United-States	System and method for presenting information based on publisher-selected labels	US7421441B1	9/20/2005	9/2/2008
United-States	System and method for presenting advertising content based on publisher-selected labels	US7409402B1	9/20/2005	8/5/2008
United-States	System and method for presenting content based on publisher-selected labels	US0069099B2	6/26/2008	11/29/2011

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Unfiled-Sitates	Tagging off-line content with content-sensitive search capabilities keywords	US0819051B2	9/29/2005	8/26/2014
Unfiled-Sitates	Shortcut for establishing a communication channel with a remote device over a network	US7702341B2	10/3/2005	4/20/2010
Unfiled-Sitates	Customizable ordering of search results and predictive query generation	US10061853B2	2/25/2011	8/28/2018
Unfiled-Sitates	Customizable ordering of search results and predictive query generation	US7921109B2	10/5/2005	4/5/2011
Unfiled-Sitates	Media device and user interface for selecting media	US0928279B2	12/31/2003	3/27/2018
Unfiled-Sitates	Media device and user interface for selecting media	US0665629B2	10/14/2005	5/30/2017
Unfiled-Sitates	Search score for the determination of search quality	US0095419B1	10/17/2005	1/10/2012
Unfiled-Sitates	User provided location information for feature correction	US7483903B2	10/17/2005	1/27/2009
Unfiled-Sitates	Interactive map based travel guide	US0825370B2	10/28/2005	9/2/2014
Unfiled-Sitates	Sealable software blade architecture	US7873696B2	10/28/2005	1/18/2011
Unfiled-Sitates	Recovering a blade in sealable software blade architecture	US7791157B2	10/28/2005	8/17/2010
Unfiled-Sitates	Low-code footprint security solution	US7725927B2	10/28/2005	5/25/2010
Unfiled-Sitates	Sharing data in sealable software blade architecture	US7870288B2	10/28/2005	1/11/2011
Unfiled-Sitates	System and method for labeling a document	US7680760B2	10/28/2005	3/16/2010
Unfiled-Sitates	System and method for assigning a document value to search terms	US015065B2	10/28/2005	9/6/2011
Unfiled-Sitates	Methods for navigating collections of information in varying levels of detail	US7603912B2	10/31/2005	4/6/2010
Unfiled-Sitates	Method and system for displaying contentual rotating advertisement elements	US0505633B2	10/31/2005	11/26/2013
Unfiled-Sitates	Identification of exclusive items in a result set	US7747612B2	10/31/2005	6/29/2010
Unfiled-Sitates	Presentation of difference between multiple searches	US7747613B2	10/31/2005	6/29/2010
Unfiled-Sitates	Clickable map interface	US090986B2	1/12/2006	4/15/2014
Unfiled-Sitates	Difference engine for generating and displaying a difference result set from the result sets of a plurality of search engines	US7747614B2	10/31/2005	6/29/2010
Unfiled-Sitates	System and method for recording a result set displaying a notice	US7809731B2	10/31/2005	10/5/2010
Unfiled-Sitates	System and method for improving access to syndication feeds in network browsing applications	US05082602B2	10/31/2005	2/28/2017
Unfiled-Sitates	System and method for managing a transaction in a network browsing applications	US7958446B2	10/31/2005	6/7/2011
Unfiled-Sitates	System for selecting and inventory with a clickable map interface	US0682713B2	7/17/2008	3/25/2014

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Identification and automatic propagation of geo-location associations to un-located elements	US7792870B2	11/10/2005	9/7/2010
United States	Data gateway for jobs management based on a persistent job table and a server table	US8065680B2	11/15/2005	11/123/2011
United States	Remote selection and installation of auxiliary content	US7636766B2	11/15/2005	12/123/2009
United States	System and method for generating functions to predict the clickability of advertisements	US7631008B2	6/29/2006	12/8/2009
United States	System and method for displaying of historical click-through data for multiple versions of an advertisement	US7840438B2	11/16/2005	11/23/2010
United States	System and method for revenue based advertisement placement	US7739708B2	11/16/2005	6/15/2010
United States	Matching pursuit approach to sparse Gaussian process regression	US7496549B2	11/18/2005	2/24/2009
United States	Multi-auto-complete function for a connection	US7583671B2	11/23/2005	9/14/2009
United States	Method for manufacturing an electronics module	US8062537B2	11/23/2005	11/122/2011
United States	Electronics module and method for manufacturing the same	US8547701B2	11/24/2005	10/14/2013
United States	URL shortening and authentication with reverse hash lookup	US7698269B2	11/29/2005	4/13/2010
United States	Method and mechanism for processing image data	US7627166B2	11/30/2005	12/14/2009
United States	Systems and methods for managing and using multiple concept networks for assisted search processing	US7872018B2	12/5/2005	4/27/2010
United States	Selectable replay of buffered conversation in a VoIP session	US7869579B2	12/9/2005	11/11/2011
United States	System for geographically contextually displaying data items	US7832708B2	8/20/2009	12/14/2010
United States	System and method for populating a geo-coded database	US7606582B2	12/13/2005	10/20/2009
United States	System for providing location predictive advertisements	US7848764B2	9/9/2009	12/7/2010
United States	System and method for providing geo-relevant information based on a location	US7606581B2	12/13/2005	10/20/2009
United States	System for classifying words	US7729901B2	12/13/2005	6/14/2010
United States	System and method for creating a minimum bounding rectangles for use in a geo-coding system	US8050689B2	12/13/2005	11/14/2011
United States	System and method for providing geo-relevant information based on a mobile device	US7616964B2	12/13/2005	11/110/2009
United States	System for determining probable meanings of inputted words	US7681147B2	12/13/2005	3/16/2010
United States	Method and mechanism for analyzing the texture of a digital image	US7583830B2	12/22/2005	9/14/2009

jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Method and mechanism for retrieving images	US7831141B2	12/22/2005	11/09/2010
United States	System and method for optimizing advertisement campaign using a limited budget	US7949562B2	12/28/2005	5/24/2011
United States	System and method for optimizing advertisement campaign using a limited budget	US6700462B2	11/30/2006	4/15/2014
United States	System and method for optimizing the delivery of advertisements	US7685010B2	12/28/2005	3/23/2010
United States	System and method for collection of advertisement using information	US7949563B2	7/26/2006	5/24/2011
United States	System and method for advertisement campaign	US9558498B2	12/30/2005	1/31/2017
United States	System and method for advertisement campaign	US9159073B2	6/24/2008	10/13/2015
United States	System and method for providing scalability in an advertising delivery system	US9836752B2	8/17/2006	12/5/2017
United States	System and method for the propagation of DRM-protected content	US7770229B2	12/30/2005	8/3/2010
United States	System and method for propagating and indexing content	US7680804B2	6/22/2006	3/16/2010
United States	Architecture for distribution of advertising content and change propagation	US9934510B2	7/19/2006	4/3/2018
United States	System and method for optimizing the selection and delivery of advertisements	US9533040B2	4/9/2007	9/10/2013
United States	Apparatus and method for controlling content access based on shared annotations for annotated users in a folksonomy scheme	US7761436B2	1/3/2006	7/20/2010
United States	Targeted sidebar advertising	US10175862B2	12/12/2013	1/8/2019
United States	Targeted sidebar advertising	US9621372B2	1/5/2006	12/31/2013
United States	Community information updates in a sidebar	US8732585B2	5/15/2006	5/20/2014
United States	Sidebar email	US9037996B2	1/23/2006	5/19/2015
United States	Matching and ranking of sponsored search listings in e-commerce web search technology and web content	US7698331B2	1/18/2006	4/13/2010
United States	Systems and methods for collaborative tag suggestions	US7685198B2	1/25/2006	3/23/2010
United States	Learning retrieval functions in e-commerce query differentiation for information retrieval	US8250061B2	1/30/2006	8/21/2012
United States	Learning retrieval functions in e-commerce query differentiation for information retrieval	US8589371B2	6/29/2012	11/19/2013
United States	Method for node classification and scoring by combining parallel iterative scoring calculation	US7584183B2	2/1/2006	9/11/2009

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Processing exception of changes in web browser's graph of a user's time for internet activity monitoring	US6420177B2	2/6/2006	4/23/2013
United States	Query-sensitive information retrieval and applicable subqueries	US7827523B2	2/23/2006	11/2/2010
United States	Method and system for communicating with multiple users via a map over the internet	US8139514B2	2/24/2006	3/20/2012
United States	User-defined private maps	US7450033B2	2/24/2006	11/11/2008
United States	Method and system for communicating with multiple user communities via a map	US9014076B2	3/7/2012	4/21/2015
United States	System and method for identifying related queries for language with multiple writing system	US7689549B2	2/28/2006	3/30/2010
United States	Providing a preferred method to user's of user's	US9270680B2	6/9/2006	2/23/2016
United States	Vertical search engine, data analysis, and optimization of search queries	US8832097B2	3/6/2006	9/9/2014
United States	Vertical search engine, data analysis, and optimization of search queries	US7805441B2	3/6/2006	9/28/2010
United States	Key word based user communication	US8108452B2	3/7/2006	1/31/2012
United States	Discontinuous alternative spelling and orthography	US814097B2	3/7/2006	10/12/2010
United States	Activating user communication system	US8370430B2	3/9/2006	2/5/2013
United States	Method and system of communication via user's	US7251578B1	3/10/2006	7/31/2007
United States	System and method for processing and displaying information in a network file system environment	US7904435B2	3/10/2006	3/8/2011
United States	System and method for processing and displaying information in a network file system environment	US7464293B2	3/10/2006	12/9/2008
United States	Assessing system and method for processing and displaying information in a network file system environment	US7885850B2	3/10/2006	2/8/2011
United States	System and method for processing and displaying information in a network file system environment	US8095487B2	3/16/2006	1/10/2012
United States	System and method for processing and displaying information in a network file system environment	US747083B2	3/27/2006	6/29/2010
United States	Creating and displaying private events in an event repository	US7676440B2	3/28/2006	3/9/2010
United States	Providing event information to third party event applications	US7668838B2	3/28/2006	2/23/2010
United States	Behavioral tracking system	US8504575B2	3/29/2006	8/6/2013
United States	Behavioral tracking system	US10007927B2	2/29/2016	6/26/2018

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Implementation of logic item and sort item user profile scores in a behavior targeting system	US7904440B2	3/29/2006	3/6/2011
United States	Smart drag and drop	US6793605B2	3/29/2006	7/29/2014
United States	Behavioral targeting system	US9286560B2	7/29/2013	3/4/2016
United States	Automated detection of network events	US7814100B2	3/29/2006	10/42/2010
United States	Model for detecting user profiles in a behavioral targeting system	US7809740B2	3/29/2006	10/5/2010
United States	Behavioral targeting system that detects user profiles for target objectives	US9105040B2	4/15/2013	8/14/2015
United States	Behavioral targeting system that detects user profiles for target objectives	US8438170B2	3/29/2006	5/7/2013
United States	Behavioral targeting system that generates user profiles for target objectives	US817868B2	7/17/2015	11/14/2017
United States	Large scale semi-supervised linear support vector machines	US7562060B2	3/31/2006	7/14/2009
United States	System and method for interacting with data using visual surfrogates	US7747686B2	3/31/2006	6/29/2010
United States	Content display and navigation interface	US6954440B2	4/4/2006	11/8/2011
United States	System and method for pipeline processing of data sets	US6151282B2	4/17/2006	4/3/2012
United States	Automated reward management for network based content	US624696B2	4/17/2006	7/17/2012
United States	Determining related terms based on link annotation of documents belonging to a search result sets	US7711732B2	4/21/2006	5/4/2010
United States	Method and system for conducting search queries	US6892196B2	4/21/2006	2/13/2018
United States	File caching	US6538921B2	4/24/2006	9/17/2013
United States	Identifying exception events	US6583778B1	4/26/2006	11/12/2013
United States	Contentual mobile local search based on social network activity information	US680596B2	5/8/2008	8/23/2011
United States	Contentual mobile local search based on social network activity information	US7636779B2	4/28/2006	12/22/2009
United States	Advertiser reporting system and method in a networked database search system	US6321275B2	4/28/2006	11/27/2012
United States	Advertiser alerting system and method in a networked database search system	US6321274B2	4/28/2006	11/27/2012
United States	System and method for indexing web content using click through features	US7647314B2	4/28/2006	11/22/2010

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Social-networking-for-mobile-devices	US0843551B2	6/16/2008	9/23/2014
United-States	Social-networking-for-mobile-devices	US0843560B2	4/28/2006	9/23/2014
United-States	System-and-method-of-using-hierarchical-clustering-for-evolutionary-clustering-of-sequence-al-data-sets	US7734620B2	4/29/2006	6/8/2010
United-States	System-and-method-for-evolutionary-clustering-of-sequence-al-data-sets	US0930365B2	4/29/2006	1/6/2015
United-States	Building-subprocessor-machines-with-reduced-complexity	US7630945B2	5/10/2006	12/8/2009
United-States	Method-and-system-for-presenting-photo-of-a-web-site	US0510660B2	5/10/2006	8/13/2013
United-States	System-and-method-for-determining-similarity-related-items	US7548929B2	5/11/2006	6/16/2009
United-States	Enabling-rent/buy-redirection-in-invitation-to-an-online-service	US7587502B2	5/12/2006	9/8/2009
United-States	Enabling-rent/buy-redirection-in-invitation-to-an-online-service	US0108515B2	9/19/2008	1/31/2012
United-States	System-and-method-for-bookmarking-and-tagging-a-content-item	US0589782B2	12/6/2010	11/19/2013
United-States	System-and-method-for-bookmarking-and-tagging-a-content-item	US7870475B2	5/16/2006	1/11/2011
United-States	System-and-method-for-selecting-object-metadata-evolving-over-time	US7739275B2	5/19/2006	6/15/2010
United-States	System-and-method-for-visualizing-the-temporal-evolution-of-object-metadata	US7581184B2	5/19/2006	8/25/2009
United-States	User-interface-for-navigating-a-keyword-space	US0359295B2	10/27/2011	1/22/2013
United-States	User-interface-for-navigating-a-keyword-space	US7797287B2	5/30/2006	9/14/2010
United-States	User-interface-for-navigating-a-keyword-space	US055634B2	8/23/2010	11/8/2011
United-States	Keyword-set-and-tag-set-of-file-generations-techniques	US7822745B2	5/31/2006	10/26/2010
United-States	Predicting-results-for-input-data-based-on-a-model-generated-from-clusters	US0386232B2	6/14/2006	2/26/2013
United-States	Providing-an-actionable-event-in-an-intercepted-text-message-for-a mobile-device-based-on-customized-user-information	US0170584B2	6/6/2006	5/1/2012
United-States	Method-for-manufacturing-a-circuit-board-structure	US0581109B2	6/15/2006	11/12/2013
United-States	Method-for-manufacturing-a-circuit-board	US0240033B2	6/15/2006	8/14/2012
United-States	Method-for-manufacturing-a-circuit-board-structure	US06223354B2	11/11/2013	4/11/2017
United-States	Search-early-warning	US7945563B2	6/16/2006	5/17/2011
United-States	Method-for-manufacturing-a-circuit-board-structure-and-a-circuit-board-structure	US0225499B2	6/16/2006	7/24/2012
United-States	User-sensitive-PageRank	US094542B2	10/9/2009	11/15/2016

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	User-sensitive password	US7624104B2	6/22/2006	11/24/2009
United States	Dynamically filter for caching query results	US7548908B2	6/26/2006	6/16/2009
United States	Search engine with augmented relevance ranking by community participation	US8521734B2	7/28/2011	8/27/2013
United States	Language community annotation of text	US7647306B2	8/2/2006	1/12/2010
United States	Text processing for analysis both explicit and implicit social networks	US9576029B2	4/9/2013	3/23/2017
United States	Relevance index and search index, rapidly changing document collections	US7634466B2	8/21/2006	12/15/2009
United States	Search engine with augmented relevance ranking by community participation	US8086605B2	6/28/2006	12/27/2011
United States	Text processing for analysis both explicit and implicit social networks	US8442978B2	8/23/2006	5/14/2013
United States	Augmented specific engine index for facet set queries	US7567945B2	6/29/2006	7/28/2009
United States	Techniques for clustering structurally similar web pages	US7676465B2	7/5/2006	3/9/2010
United States	Techniques for clustering structurally similar web pages	US7680858B2	7/5/2006	3/16/2010
United States	Automated relevance and weight checking for web and vertical search engines	US7558787B2	7/5/2006	7/7/2009
United States	Techniques for indexing high quality structural templates for electronic documents	US8046681B2	11/27/2007	10/25/2011
United States	System and method for budgeted generalization search in hierarchies	US7991769B2	7/7/2006	8/2/2011
United States	Query optimizer	US7664744B2	7/26/2007	2/16/2010
United States	Search optimizer	US8301616B2	7/14/2006	10/30/2012
United States	Search optimizer	US8868539B2	9/27/2012	10/21/2014
United States	Authentication seal for online applications	US8010996B2	1/25/2007	8/30/2011
United States	Action tags	US8132151B2	7/18/2006	3/6/2012
United States	Multi-tiered storage	US7596587B2	7/19/2006	9/29/2009
United States	Providing a reliable trust indicator for content	US8595370B2	9/24/2012	11/26/2013
United States	Techniques for providing a reliable trust indicator to a web page	US8301728B2	7/21/2006	10/30/2012
United States	Authenticating a site while providing security holes by handling communication web server configuration	US7974956B2	7/21/2006	7/5/2011
United States	Augmented tags view of website information	US8112703B2	7/21/2006	2/7/2012

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Time-slicing web-based advertisements	US7904566B2	7/26/2006	5/17/2011
United-States	Business intelligent architecture system and method	US6158831B2	6/30/2009	10/13/2015
United-States	Business intelligent architecture system and method	US7580944B2	7/27/2006	8/25/2009
United-States	System and method for web destination profiling	US6676961B2	7/27/2006	3/18/2014
United-States	System and method for searching a bookmark and tag database for relevant bookmarks	US6367637B2	8/20/2012	6/14/2016
United-States	System and method for searching a bookmark and tag database for relevant bookmarks	US6271486B2	7/29/2006	9/18/2012
United-States	System and method of identifying and measuring response to user interface design	US7827004B2	7/31/2006	11/12/2010
United-States	System and method of identifying and measuring response to user interface design	US6719715B2	7/7/2010	5/6/2014
United-States	Automatic identification of distance based event classification errors in a network by comparing to a second classification using event logs	US7693805B2	8/1/2006	4/6/2010
United-States	Providing an interface to browse links or redirects to a particular webpage	US6554860B2	8/2/2006	10/8/2013
United-States	Electronic document information extraction	US6547648B2	8/3/2006	11/7/2017
United-States	System and method for dynamically ranking items of audio content	US7849078B2	8/3/2006	12/7/2010
United-States	System and method for accessing preferred provider of audio content	US6805827B2	8/3/2006	8/23/2011
United-States	Calendar event, notification and alert bar embedded within mail	US6745141B2	8/7/2006	6/3/2014
United-States	Method and apparatus for receiving a search query	US6209317B2	10/11/2011	6/26/2012
United-States	System and method for inferring user interest based on analysis of user-generated metadata	US6707160B2	8/10/2006	4/22/2014
United-States	Method and apparatus for reconstructing a search query	US6046347B2	4/22/2010	10/25/2011
United-States	Method and apparatus for reconstructing a search query	US7716201B2	8/10/2006	5/11/2010
United-States	System and method for providing tag based relevance recommendations of bookmarks in a bookmark and tag database	US6135725B2	8/11/2006	3/13/2012
United-States	System and method for providing tag based relevance recommendations of bookmarks in a bookmark and tag database	US6104772B2	12/29/2011	8/11/2015
United-States	Apparatus for near duplicate image detection	US7860308B2	8/17/2006	12/28/2010
United-States	System and method for shortening click URLs	US7698347B2	8/19/2006	4/13/2010
United-States	Persistent saving portal	US6572202B2	8/22/2006	10/29/2013

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Method and system for presenting information with multiple views	US06745162B2	4/19/2007	6/9/2014
United States	System and method for identifying web communities from seed sets of web pages	US7949661B2	8/24/2006	5/24/2011
United States	Structured method in a directory-governed search system	US0977605B2	8/28/2006	3/10/2015
United States	Platform for managing mobile domains and keywords activated applications	US0175623B2	8/30/2006	5/8/2012
United States	Techniques for navigational query identification	US7693865B2	8/30/2006	4/6/2010
United States	Methods and computer-readable media for enhancing product reviews	US7885863B2	8/31/2006	2/8/2011
United States	System and method for identifying media content items and related media content items	US0166029B2	9/7/2006	4/24/2012
United States	Generating event data display code	US0290980B2	9/8/2006	10/16/2012
United States	Displaying items arranged by selected presentation	US761805B2	9/11/2006	7/20/2010
United States	Path discovery and analytics for network data	US0054756B2	9/18/2006	11/8/2011
United States	Discovering associative intent queries from search web logs	US7552112B2	9/18/2006	6/23/2009
United States	System and method for creating user profiles	US0655916B2	9/22/2006	2/18/2014
United States	Instant message interoperability between disparate service providers	US0762530B2	6/8/2015	9/12/2017
United States	Instant message interoperability between disparate service providers	US0053461B2	9/27/2006	6/9/2015
United States	Engine for processing content rules associated with locations in a page	US0479343B2	11/2/2015	10/25/2016
United States	Engine for processing content rules associated with locations in a page	US0178793B1	9/29/2006	11/3/2015
United States	Multi-tiered anti-abuse registration for a mobile device user	US0620315B1	9/29/2006	12/31/2013
United States	Mobile device-enabled registration based on user agents and customer snapshots of capabilities	US0224308B1	9/29/2006	7/17/2012
United States	Managing page sizes for a mobile device using estimation of content customizer techniques	US7996000B1	9/29/2006	8/9/2011
United States	Digital media benefit attachment mechanism	US0781892B2	9/29/2006	7/15/2014
United States	Script-based content embedding code generation in digital media benefit attachment mechanism	US0043401B2	9/29/2006	1/27/2015
United States	Content embedding code generation in digital media benefit attachment mechanism	US0065783B2	9/29/2006	2/24/2015
United States	System and method for characterizing a web page using multiple anchor sets of web pages	US7912831B2	10/3/2006	3/22/2011

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Mobile-monetization	US0521832B1	10/4/2006	8/27/2013
United-States	Mobile-monetization	US10049301B2	8/15/2013	8/14/2018
United-States	Method-use-for-distributed-database-processing	US0190610B2	10/5/2006	5/29/2012
United-States	System-and-method-for-enhanced-text-matching	US783660B2	10/5/2006	8/24/2010
United-States	Infrastructure-for-more-efficient-processing-to-generate-of-ad-hoc-reports	US7809735B2	10/11/2006	10/5/2010
United-States	Augmented-search-with-error-detection-and-replacement	US7577644B2	10/11/2006	8/18/2009
United-States	Systems-and-methods-for-establishing-or-maintaining-a-personalized-trusted-social-network	US0479474B2	10/27/2015	10/25/2016
United-States	Handling-dynamic-URLs-in-crawl-for-better-coverage-of-unique-content	US7827166B2	10/13/2006	11/2/2010
United-States	Systems-and-methods-for-establishing-or-maintaining-a-personalized-trusted-social-network	US0101456B2	4/19/2012	11/17/2015
United-States	Systems-and-methods-for-establishing-or-maintaining-a-personalized-trusted-social-network	US0190724B2	10/13/2006	5/29/2012
United-States	Automated-clustering-of-records; biased-by-supervised-classification-processing	US7849027B2	10/18/2006	12/7/2010
United-States	Contextual-syndication-platform	US7962465B2	10/19/2006	6/14/2011
United-States	Format-harvester-and-translator-for-parallel-processing-of-data	US7921416B2	10/20/2006	4/5/2011
United-States	Systems-and-methods-for-receiving-and-synchronizing-media-content	US0123048B2	10/20/2006	9/1/2015
United-States	System-and-method-for-determining-a-relationship-between-available-content-and-current-interests-to-identify-a-need-for-content	US0010520B2	10/23/2006	8/30/2011
United-States	Computerized-system-and-method-for-creating-a-modified-version-of-a-digital-slide-show-by-creating-and-inserting-a-digital-content-item-into-the-digital-slide-show	US0978072B2	10/25/2006	5/22/2018
United-States	Computerized-system-and-method-for-creating-a-modified-version-of-a-digital-ticker-data-feed-by-creating-and-inserting-a-digital-content-item-into-the-digital-ticker-data-feed	US0916587B2	5/10/2007	3/13/2018
United-States	System-and-method-for-adaptively-refreshing-a-web-page	US0451038B2	10/26/2006	6/13/2014
United-States	Recommendation-diversity	US7860862B2	10/27/2006	12/28/2010
United-States	Optimization-of-targeted-advertisements-based-on-user-profile-information	US7680786B2	10/30/2006	3/16/2010

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Optimization of targeted advertisements based on user profile information	US06060520B2	3/11/2010	11/15/2011
United States	Time based analysis of related keywords	US7937403B2	10/30/2006	5/3/2011
United States	Methods and systems for providing a customizable guide for navigating a corpus of content	US0914729B2	10/30/2006	12/16/2014
United States	Automatic association of reference data with primary process data based on time and shared identifier	US0171237B2	10/31/2006	5/1/2012
United States	Automatic association of reference data with primary process data based on time and shared identifier	US0621162B2	2/11/2013	12/31/2013
United States	Automatic association of reference data with primary process data based on time and shared identifier	US0397037B2	4/2/2012	3/12/2013
United States	Determining a mobile content for a social network based on location and time	US0260315B2	3/7/2011	9/4/2012
United States	Determining a mobile content for a social network based on location and time	US7917154B2	11/11/2006	3/29/2011
United States	System and method for dynamically retrieving data specific to a region of a layer	US0688670B2	9/9/2013	4/1/2014
United States	System and method for dynamically retrieving data specific to a region of a layer	US0235597B2	2/24/2014	11/2/2016
United States	System and method for dynamically retrieving data specific to a region of a layer	US0533217B2	11/11/2006	9/10/2013
United States	System and method for dynamically retrieving data specific to a region of a layer	US0607055B2	11/11/2016	3/20/2017
United States	Searching and route planning based on a social network, location, and time	US0108501B2	11/11/2006	11/31/2012
United States	Personalized search	US10275419B2	11/12/2016	4/30/2019
United States	Personalized search	US0519715B2	11/12/2006	12/13/2016
United States	Determining locally related sub strings of a string	US7747607B2	11/12/2006	6/29/2010
United States	Content server for associating information associated on content	US0251252B2	11/12/2013	2/2/2016
United States	Content server for associating information associated on content	US0504702B2	11/16/2006	11/12/2013
United States	Sharing tagged data on the internet	US7953775B2	11/17/2006	5/31/2011
United States	System and method for synchronizing data	US7900145B2	11/19/2006	3/11/2011
United States	Customizable connections between media and meta data via feeds	US0015189B2	11/19/2006	9/6/2011

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	System and method for transmission of DNS beacon	US0108555B2	11/09/2010	11/31/2012
United States	System and method for transmission of DNS beacons	US7853721B2	11/19/2006	12/14/2010
United States	System and method for generating submittable queries	US7962470B2	7/2/2007	6/14/2011
United States	Deriving user intent from a user query	US7974976B2	5/18/2007	7/5/2011
United States	System and method for recognizing and storing information and associated context	US0056007B2	11/15/2006	11/18/2011
United States	System and method for generating submittable queries on the basis of one or more features	US7730264B2	11/15/2006	6/15/2010
United States	Client side federated search	US7805175B2	11/15/2006	2/22/2011
United States	Automating and scrolling	US0087507B2	11/15/2006	7/21/2015
United States	Map-based with merge to process multiple relational datasets	US7523123B2	11/16/2006	4/21/2009
United States	System and method using query patterns to distinguishable query intent	US0635203B2	11/16/2006	11/21/2014
United States	System and method for determining semantically related terms based on sequences of search queries	US7814086B2	11/16/2006	10/12/2010
United States	Method and system for finding similar charts for financial analysis	US7873178B2	11/21/2006	11/25/2011
United States	Method, system and apparatus for using user profile electronic device data in media delivery	US0110903B2	11/22/2006	8/18/2015
United States	Method, system and apparatus for delivery of media	US0402356B2	11/22/2006	3/19/2013
United States	Wait timer for partially formed query	US7630970B2	11/28/2006	12/18/2009
United States	Interactive user interface for collecting and processing nonenclave and place ment metrics for website design	US0126766B2	11/29/2006	2/28/2012
United States	Agent for identifying domains with content arranged for display by a mobile device	US0041703B2	11/29/2006	10/18/2011
United States	Method and user interface tool for navigation through grid of scheduled items	US0381130B2	11/29/2006	2/19/2013
United States	Keyword bidding strategy for novel concepts	US7941436B2	11/30/2006	5/10/2011
United States	Method and systems for managing playlists	US0176050B2	11/30/2006	5/8/2012
United States	Method and system for managing playlists	US0396103B2	5/7/2012	7/19/2016
United States	Dynamic cluster visualization	US7509045B2	11/30/2006	10/6/2009
United States	End of program pattern detector	US0045802B2	11/14/2006	10/25/2011
United States	Topic focused search result summaries	US7921092B2	11/14/2006	4/5/2011

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Method and system for visually illustrating concepts	US7555477B2	12/5/2006	6/30/2009
United States	Intermarket click analysis of keyword searching	US7552191B2	12/5/2006	7/6/2010
United States	Search results presented via visually illustrating concepts	US7555478B2	12/5/2006	6/30/2009
United States	Sponsored search coverage expansion	US8380706B2	12/5/2006	2/19/2013
United States	Telepresence via wireless streaming multiplex	US9762861B2	12/5/2006	9/12/2017
United States	Web services multi-protocol support	US7685304B2	12/6/2006	3/23/2010
United States	System and method for identifying target nodes graphs from predicted network seed nodes subsets	US7805667B2	12/6/2006	9/28/2010
United States	System and method for routing streaming data requests	US8713192B2	12/8/2006	4/29/2014
United States	System and methods for providing a relevant link destination	US9972018B2	12/11/2006	5/15/2018
United States	System and methods for providing error-critical profiling and searching	US7590615B2	12/11/2006	9/15/2009
United States	Systems and methods for providing cross-vertical profiling and searching	US7844588B2	8/5/2009	11/30/2010
United States	Selecting and presenting user search results based on an environment taxonomy	US7822734B2	12/12/2006	10/26/2010
United States	Bid optimization in search engine marketing	US8712832B2	12/12/2006	4/29/2014
United States	Harvesting of media objects from searched sites without a user having to enter the sites	US7941416B2	3/11/2010	5/10/2011
United States	Harvesting of media objects from searched sites without a user having to enter the sites	US7707198B2	12/12/2006	4/27/2010
United States	System for generating a smart advertisement based on a dynamic file and a configuration file	US8160925B2	12/12/2006	4/17/2012
United States	Selecting and presenting user search results based on user information	US8341144B2	10/13/2010	12/25/2012
United States	Location identification, tagging and host matching for a mobile application	US9268873B2	12/14/2006	2/23/2016
United States	Query rewriting with spell correction suggestions using a generated set of query features	US7630978B2	12/14/2006	12/8/2009
United States	Creative audit system	US953888B2	12/14/2006	9/17/2013
United States	Management of network login identities	US8510813B2	12/15/2006	8/13/2013
United States	Modulated synchronization data feed	US8224889B2	12/15/2006	7/17/2012
United States	Intervention processing of requests relative to synchronization data feed items	US886707B2	12/15/2006	11/11/2014

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	System-and-method-for-determining-exceptions-in-a-content-item-using-context	US08056145B2	12/15/2006	10/7/2014
United-States	System-and-method-for-facilitating-iterative-selection-and-presentation-of-datasets	US7581193B2	12/15/2006	8/25/2009
United-States	Auto-scaffing-of-carrier-performances-using-reverse-round-trip-time	US08041303B2	12/18/2006	10/18/2011
United-States	Evaluating-performances-of-click-fraud-detection-systems	US0655724B2	9/5/2013	2/18/2014
United-States	Evaluating-performances-of-binary-classification-systems	US0554623B2	12/18/2006	10/8/2013
United-States	Systems-and-methods-for-identifying-premium-content-items-in-a-result-set	US08041723B2	12/16/2010	10/18/2011
United-States	Systems-and-methods-for-identifying-premium-content-items-in-a-result-set	US7877395B2	12/18/2006	1/25/2011
United-States	Providing-system-configuration-information-to-a-search-engine	US10120936B2	12/19/2006	11/6/2018
United-States	Techniques-for-including-collection-items-in-search-results	US0009164B2	6/6/2011	4/14/2015
United-States	Dynamically-constrained,forward-scheduling-over-unertain-workloads	US7886042B2	12/19/2006	2/8/2011
United-States	Techniques-for-including-collection-items-in-search-results	US7958126B2	12/19/2006	6/7/2011
United-States	User-behavior-reporting-based-on-pre-agggregated-activity-data	US7533130B2	12/19/2006	5/12/2009
United-States	Techniques-for-including-collection-items-in-search-results	US0576055B2	2/10/2015	2/21/2017
United-States	System-and-method-for-labeling-a-content-item-based-on-a-posterior-probability-distribution	US0744883B2	12/19/2006	6/3/2014
United-States	System-and-method-for-facilitating-iterative-selection-of-clusters-and-presentation-of-related-datasets	US08051082B2	12/19/2006	11/4/2011
United-States	Propensity-to-click-targeting-and-modeling	US7769786B2	12/19/2006	8/3/2010
United-States	Transferring-behavioral-profiles-anonymously-across-domains-for-behavioral-targeting	US0660899B2	12/19/2006	2/25/2014
United-States	Browser-renderable-toolbar	US0003296B2	12/20/2006	4/7/2015
United-States	Graphical-user-interface-to-manipulate-syndication-data-feeds	US7680939B2	12/20/2006	3/16/2010
United-States	System-and-method-for-query-expansion	US7685119B2	12/20/2006	3/23/2010
United-States	Discovering-query-intent-from-search-queries-and-exception-networks	US7840538B2	12/20/2006	11/23/2010
United-States	Providing-real-time-information-in-a-visual-information-unit	US0423603B2	7/8/2008	4/16/2013
United-States	System-and-method-for-generating-a-matrix-unitlity-state-of-advertisements-for-online-advertisement-positions	US0719096B2	12/20/2006	5/6/2014

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	Discovering query intent from search queries and concept networks	US0135721B2	10/24/2010	3/13/2012
United-States	Identifying items that have expired recent interest bursts	US046248B2	12/21/2006	10/25/2011
United-States	System for tagging data to sites referenced on a page	US0108390B2	12/21/2006	1/31/2012
United-States	System for generating scores related to interactions with a service provider partner	US0458025B2	1/26/2007	6/4/2013
United-States	Providing multiple media items to a consumer via a simplified consumer interaction	US0356039B2	12/21/2006	1/15/2013
United-States	Academic filter	US002428B2	12/21/2006	9/20/2011
United-States	Clustered query support for a database query engine	US7844608B2	12/22/2006	11/30/2010
United-States	Social network commerce model	US005553B2	12/22/2006	11/8/2011
United-States	Dynamic pricing models for digital content	US0076148B2	12/22/2006	7/7/2015
United-States	Link retrofitting of digital media objects	US05082804B2	12/22/2006	2/28/2017
United-States	Exported overlays	US0734257B2	12/22/2006	8/15/2017
United-States	Method and system for locating events in content	US0185524B2	12/22/2006	5/22/2012
United-States	Confusion matrix for classification systems	US0611675B2	12/22/2006	12/17/2013
United-States	Method and system for progressive disclosure of search results	US0156135B2	12/22/2006	4/10/2012
United-States	Method and system for managing multiple catalogs of files on a network	US0103590B2	12/26/2006	1/24/2012
United-States	System and method for clearing a weighted index to categorize objects	US756845B2	12/28/2006	7/13/2010
United-States	Methods and systems for delivery of information to a mobile computing device based on priority of the information	US0762693B2	6/9/2014	9/12/2017
United-States	Identifying interest twins in an online community	US0166058B2	12/28/2006	4/24/2012
United-States	Asymmetric identification of interest twins in an online community	US0342614B2	4/10/2012	5/17/2016
United-States	Methods and systems for pre-etching information on a mobile computing device	US0769099B2	12/28/2006	7/1/2014
United-States	Automatically generating user customized notifications of changes in a social network system	US7844604B2	12/28/2006	11/30/2010
United-States	User content feeds from user storage devices to a public search engine	US7797295B2	1/4/2007	9/14/2010
United-States	Estimation of web client response time	US7779133B2	1/4/2007	8/17/2010
United-States	Clustered search processing	US0326841B2	10/11/2011	12/4/2012
United-States	Clustered search processing	US7630972B2	1/5/2007	12/8/2009

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Clustered-search-procedures	US0145637B2	10/30/2009	3/27/2012
United-States	Methods-and-systems-for-exploring-a-corpus-of-content	US0510377B2	1/24/2012	8/13/2013
United-States	Methods-and-systems-for-exploring-a-corpus-of-content	US0411725B2	1/0/2007	2/14/2012
United-States	Method-for-improving-ability-of-search-results-by-avoiding-indexing-sections-of-pages	US7698329B2	1/10/2007	4/13/2010
United-States	Method-and-system-for-publishing-media-content	US0868465B2	1/12/2007	10/21/2014
United-States	Method-and-system-for-online-recmixing-of-digital-multimedia	US0411750B2	1/12/2007	4/2/2013
United-States	System-and-method-for-automatically-organizing-bookmarks-through-the-use-of-tag-data	US0010532B2	1/17/2007	8/30/2011
United-States	System-and-method-for-the-retrieval-and-display-of-supplemental-content	US0983923B2	1/25/2007	3/17/2015
United-States	System-for-classifying-a-search-query	US7603348B2	1/26/2007	10/13/2009
United-States	System-and-method-for-automatically-determining-an-advertisement-type-of-a-digital-advertisement	US0105049B2	1/31/2007	8/11/2015
United-States	Revenue-adjustment-procedures	US0626574B2	1/31/2007	1/7/2014
United-States	System-for-updating-advertisement-bids	US7974880B2	1/31/2007	7/5/2011
United-States	Collecting-implicit-information-for-determining-content-of-event-actions	US0598011B2	2/1/2007	12/3/2013
United-States	Method-and-system-for-improved-extended-searching	US0825625B2	2/1/2007	9/2/2014
United-States	Word-pluralization-handling-in-query-for-web-search	US7996410B2	2/1/2007	8/9/2011
United-States	Term-expansion-using-associative-matching-of-labeled-term-pairs	US7685084B2	2/9/2007	3/23/2010
United-States	Extraction-of-logical-events-from-network-data	US7849051B2	2/12/2007	12/7/2010
United-States	System-and-method-for-determining-web-page-ability-using-collective-interaction-based-on-local-and-global-information	US7809705B2	2/13/2007	10/5/2010
United-States	High-availability-and-data-protection-of-OLTP-databases	US0100572B2	2/15/2007	5/20/2012
United-States	Context-aware	US7979067B2	2/15/2007	7/12/2011
United-States	Ranking-documents	US7756867B2	2/16/2007	7/13/2010
United-States	Federated-searches-implemented-across-multiple-search-engines	US7930286B2	2/16/2007	4/19/2011
United-States	Ranking-documents	US7958111B2	7/7/2010	6/7/2011
United-States	Methods-of-dynamically-creating-personalized-internet-advertisements-based-on-advertiser-input	US0650265B2	2/20/2007	2/11/2014
United-States	Discovering-and-determining-characteristics-of-network-proxies	US7702728B2	2/22/2007	4/20/2010

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	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	US640406B2	7/30/2007	7/23/2013
United States	System for separating mobile search traffic from web search traffic using keyword separation	US648543B2	12/21/2010	5/22/2012
United States	System for creating separate data serving spaces for each mobile carrier in a plurality of mobile carriers	US666089B2	7/30/2007	2/25/2014
United States	System for creating separate data serving spaces for each mobile carrier in a plurality of mobile carriers	US671082B2	12/26/2013	7/18/2017
United States	Instant connect searching and presentation by category	US637034B2	2/28/2007	2/5/2013
United States	System for providing for a revenue generator to bid exclusively on mobile search traffic	US699640B2	7/30/2007	3/31/2015
United States	System for separating mobile search traffic from web search traffic using keyword separation	US7917302B2	7/30/2007	3/29/2011
United States	Identifying offensive content using user click data	US6280871B2	3/21/2007	10/2/2012
United States	Stateless gateways having remote dialout store	US6301782B2	3/21/2007	10/30/2012
United States	Link optimization	US7647316B2	3/5/2007	1/12/2010
United States	Methods of processing and segmenting web usage information	US7822755B2	3/6/2007	10/26/2010
United States	Searching mobile advertisement	US7904062B2	3/8/2007	3/8/2011
United States	System for storing event data using a user calculator that sums the events and squares of events	US7908239B2	10/18/2010	3/15/2011
United States	Method and system for time-sliced digital distribution of data that monitors user interactions with a web page	US7840523B2	3/9/2007	11/23/2010
United States	"Query-log-matcher"-relavance features	US7827172B2	3/14/2007	11/2/2010
United States	Implicit social searching	US7917409B2	3/14/2007	3/29/2011
United States	Spokenred-logging recommendation engine	US6417573B2	3/14/2007	4/9/2013
United States	Manufacture of a circuit board and circuit board containing a component	US6085347B2	3/18/2015	9/25/2018
United States	Manufacturing list tailoring for a mobile device	US6381096B2	3/15/2007	2/19/2013
United States	Manufacture of a circuit board containing a component	US6984746B2	3/15/2007	3/24/2015
United States	System and method of providing context information for client application data stored on the web	US6046436B2	3/16/2007	10/25/2011

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	System and method for providing web-system-services-for-storing data and context of client-applications-on-the-web	US06041781B2	3/16/2007	10/18/2011
United States	System and method of restoring data and context of client applications stored on the web	US06046438B2	3/16/2007	10/25/2011
United States	System and method of providing a user interface for client applications to store data and context information on the web	US7996779B2	3/16/2007	8/9/2011
United States	System and method of storing data and context of client application on the web	US06046437B2	3/16/2007	10/25/2011
United States	Identifying popular segments of media objects	US10282425B2	3/19/2007	5/7/2019
United States	Currency system to reward constructive behavior	US041260802	3/19/2007	4/2/2013
United States	Browser-interpretable document for controlling a plurality of media players and systems and method related thereto	US0756505B2	6/20/2008	6/17/2014
United States	System for measuring web traffic related to an offline advertising campaign	US0306310B2	3/20/2007	2/26/2013
United States	Injecting content into third party documents for document processing	US06065667B2	3/20/2007	11/22/2011
United States	Employing matching of event characteristics to suggest another characteristic of an event	US7865206B2	3/20/2007	11/4/2011
United States	In-page installer	US06065675B2	3/21/2007	11/22/2011
United States	Methods and systems for managing widgets through a widget user interface	US08081052B2	3/21/2007	11/4/2014
United States	Traffic production index and related metrics for analysis of a network of related web sites	US7885942B2	3/21/2007	2/8/2011
United States	Divided backup of data warehouse	US7769716B2	3/27/2007	8/3/2010
United States	Using activation paths to cluster proximity query results	US7636713B2	3/27/2007	12/22/2009
United States	System for determining local intent in a search query	US10134055B2	2/12/2016	11/20/2018
United States	System for determining local intent in a search query	US77882252B2	3/28/2007	8/31/2010
United States	System for determining the geographic range of local intent in a search query	US0185538B2	7/12/2010	5/22/2012
United States	System for determining the geographic range of local intent in a search query	US7805450B2	3/28/2007	9/28/2010
United States	System for determining the geographic range of local intent in a search query	US0601008B2	4/30/2012	12/3/2013
United States	System for determining local intent in a search query	US0262439B2	12/2/2013	2/16/2016

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United States	Method and system for launching a browser	US7610277B2	3/29/2007	10/27/2009
United States	Method and system for registering and retrieving production information	US7620657B2	3/29/2007	11/17/2009
United States	Attribute extraction using limited training data	US7689527B2	3/30/2007	3/30/2010
United States	Point of presence distribution mechanism for distributed content objects	US0906627B2	3/30/2007	6/12/2018
United States	Mobile addressability with mapping of phone numbers to dynamic addresses	US08060875B2	4/2/2007	11/15/2011
United States	Employing the SMS protocol as a transport layer protocol	US08050693B2	4/2/2007	11/11/2011
United States	System and method for determining impression volumes of content items in a taxonomy hierarchy	US79211073B2	4/5/2007	4/5/2011
United States	Dynamically bid pricing for sponsored search	US7933899B2	10/5/2010	4/26/2011
United States	Dynamically bid pricing for sponsored search	US7856433B2	4/6/2007	12/21/2010
United States	System and method for modeling user selection feedback in a search result page	US7827184B2	4/10/2007	11/2/2010
United States	System and method for scenario based content delivery	US8266167B2	4/10/2007	9/11/2012
United States	System for generating query suggestions using a network of users and advertisers	US79211075B2	7/30/2007	4/5/2011
United States	System for generating query suggestions by integrating valuable query suggestions with experimental query suggestions using a network of users and advertisers	US7849080B2	7/30/2007	12/7/2010
United States	Temporal targeting of advertisements	US7672937B2	4/11/2007	3/2/2010
United States	System and method for extrapolating data from a sample set	US8150849B2	4/12/2007	4/3/2012
United States	Techniques for detecting duplicate web pages	US7698317B2	4/20/2007	4/13/2010
United States	Using natural search click events to optimize online advertising campaigns	US7844605B2	4/20/2007	11/30/2010
United States	System and method for identifying advertisements responsive to historical user queries	US7644098B2	4/24/2007	1/5/2010
United States	System for serving data that matches content related to a search results page	US0940641B2	7/19/2016	4/10/2018
United States	System for serving data that matches content related to a search results page	US0306261B2	4/25/2007	7/19/2016
United States	Instant communication with TLD VPN tunnel management	US8418244B2	4/27/2007	4/9/2013

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United States	Context-sensitive, self-adjusting targeting models	US7699410B2	4/27/2007	4/13/2010
United States	System and method for determining semantically related terms using an active-learning framework	US6275722B2	3/10/2010	9/25/2012
United States	Method and apparatus using a classifier to determine semantically relevant terms	US7307127B2	4/30/2007	4/27/2010
United States	Apparatus and methods for providing search benchmarks	US7899815B2	5/2/2007	3/1/2011
United States	Smart fields	US8621383B2	7/12/2010	12/31/2013
United States	Smart fields	US7836407B2	5/2/2007	11/16/2010
United States	System and method for automatic hierarchical data using isotonic regression	US7870474B2	5/4/2007	1/11/2011
United States	System and method for detecting a web page template	US7987417B2	5/4/2007	7/26/2011
United States	Trusted third party clearing house for local tracking	US8423479B2	5/7/2007	4/16/2013
United States	Content delivery system using user-specific query events	US10275793B2	4/18/2014	4/30/2019
United States	Multi-user interactive web-based searches	US8621367B2	4/26/2013	12/31/2013
United States	Multi-user interactive web-based searches	US8458599B2	5/8/2007	6/4/2013
United States	User-specific query events to improve advertising campaign	US7128449B2	5/8/2007	4/29/2014
United States	Automated tagging of syndication data feeds	US7752314B2	5/15/2007	7/5/2010
United States	Content directed search	US8849855B2	5/16/2007	9/30/2014
United States	Geographically distributed real-time communications platform	US850035B1	5/16/2007	9/30/2014
United States	Interactive aggregation of data on a scatter plot	US9122056B2	5/17/2007	2/21/2012
United States	Efficient online computation of diverse query results	US8001117B2	5/18/2007	8/16/2011
United States	Dynamic layout for a search engine results page on implicit user feedback	US8015502B2	5/22/2007	9/6/2011
United States	Visual interface to indicate custom binning of items	US7756908B2	5/22/2007	7/13/2010
United States	Exporting aggregated and user aggregated data	US7739229B2	5/22/2007	6/15/2010
United States	Dynamic layout for a search engine results page based on implicit user feedback	US8683379B2	7/28/2011	3/25/2014
United States	Methods of processing and segmenting web usage information	US9965764B2	5/23/2007	5/8/2018
United States	Incentive-based system and method for third party web application development and publication	US10068238B2	5/23/2007	9/4/2018

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United States	Prediction of click-through rates using hybrid keyword filter tree structure-markov model classifiers	US7680746B2	5/23/2007	3/16/2010
United States	Visual browsing system and method	US9046985B2	10/7/2011	6/2/2015
United States	Visual browsing system and method	US9037424B2	5/24/2007	10/11/2011
United States	Enabling search of user ratings and reviews using user profile location and social networks	US7895177B2	5/29/2007	2/23/2011
United States	Method and apparatus for using a means for localizing relevance functions from expert and user judgments	US7685078B2	5/30/2007	3/23/2010
United States	System and method for providing vector terms related to a search query	US8392446B2	5/31/2007	3/5/2013
United States	Enhanced search results based on user feedback relating to search results abstracts	US7818320B2	5/31/2007	10/19/2010
United States	Centralized location broker	US804595B2	5/31/2007	10/25/2011
United States	Detection of abnormal user click activity in a search results page	US7860870B2	5/31/2007	12/28/2010
United States	User interactive precision targeting principle	US7882111B2	6/4/2007	2/4/2011
United States	Cold-row encapsulation for server farm cooling system	US7672128B2	10/27/2008	3/21/2010
United States	Cold-row encapsulation for server farm cooling system	US8913381B2	3/8/2013	12/16/2014
United States	Cold-row encapsulation for server farm cooling system	US7957142B2	12/11/2009	6/7/2011
United States	Cold-row encapsulation for server farm cooling system	US9030811B2	5/27/2016	3/27/2018
United States	Cold-row encapsulation for server farm cooling system	US9363929B2	12/12/2014	6/7/2016
United States	Cold-row encapsulation for server farm cooling system	US9395891B2	8/18/2008	3/12/2013
United States	Cold-row encapsulation for server farm cooling system	US7430118B1	6/4/2007	9/30/2008
United States	Method and system for rendering a collection of media items	US799249B2	6/8/2007	8/5/2014
United States	Category based advertisement	US7865397B2	6/13/2007	1/4/2011
United States	Method and system for media event generation	US9542394B2	6/14/2007	1/10/2017
United States	Method and system for media identification	US7908556B2	6/14/2007	3/15/2011
United States	Mobile contextual SMS advertising	US9430772B2	6/14/2007	8/30/2016
United States	Relative typing waiting time before disambiguation aids	US7747792B2	6/18/2007	6/29/2010
United States	System and method for knowledge based search system	US7882848B2	6/26/2007	8/31/2010
United States	Determining quality measures for web objects based on searcher behavior	US9290986B2	6/27/2007	10/16/2012

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United States	Method and system for generating a linear matching lexographic model for predicting online user input actions	US0364627B2	4/31/2011	4/20/2013
United States	Dynamically switching	US0275760B2	6/20/2007	9/25/2012
United States	Graphical data for behavior targeting using predictive models	US921060B2	6/28/2007	4/5/2011
United States	Graphical data for behavior targeting	US0760907B2	1/11/2013	9/12/2017
United States	System and method of generating recommendations using an RFID-enabled recommendation system	US7692536B2	6/28/2007	4/6/2010
United States	Desktop application factory and application templates	US0166455B2	6/28/2007	4/24/2012
United States	System and method for enabling parallel access to sequentially compressed files	US7756817B2	7/5/2007	7/13/2010
United States	Interface for visually searching and navigating objects	US7941429B2	7/10/2007	5/10/2011
United States	Behavioral prediction-based on network activity locations	US7958228B2	7/11/2007	6/7/2011
United States	Method and system for improved media distribution	US0801186B2	7/12/2007	11/14/2014
United States	Method for matching electronic advertisements to surrounding content based on their advertisement content	US0073803B2	7/16/2007	12/6/2011
United States	Calculating efficiency score for navigating internal nodes based on eye-tracking data	US0108800B2	7/16/2007	1/31/2012
United States	Techniques for representing location information	US0165808B2	7/17/2007	4/24/2012
United States	Techniques for improving user engagement with advertisements	US9947016B2	7/18/2007	4/17/2018
United States	System and method of making networks for a finite subset of orders placed across countries and optionally in finite outer regions	US0566205B2	7/18/2007	10/22/2013
United States	System and method to facilitate classification and storage of events in a network	US0666819B2	7/20/2007	3/4/2014
United States	System and method to facilitate importation of data taxonomies within a network	US7991806B2	7/20/2007	8/21/2011
United States	System and method to facilitate matching of content to advertising information in a network	US0888521B2	7/20/2007	4/1/2014
United States	Connection sub-graphs in entity relationship graphs	US7685141B2	7/23/2007	3/23/2010
United States	Comment faces	US7747602B2	7/24/2007	6/29/2010
United States	Trailer predictor for network accessible information modules	US7987261B2	7/31/2007	7/26/2011
United States	Mail compression scheme with individual message decompressibility	US7836099B2	7/31/2007	11/16/2010
United States	Enabling clustered search processing via text messaging	US7693902B2	8/2/2007	4/6/2010

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United States	Employing pixel density-to-detect a program image	US7808217B2	8/6/2007	2/4/2011
United States	Employing pixel density-to detect a program image	US801719B2	12/8/2010	10/30/2012
United States	Estimating the date received of a query from a query logs	US7966341B2	8/6/2007	6/24/2011
United States	Method and system of facilitating search by color	US8577134B2	8/7/2007	11/5/2013
United States	Remote profile modification for device recovery assist	US10182345B2	4/21/2015	11/15/2019
United States	Remote profile modification for device recovery assist	US9020466B2	8/8/2007	4/28/2015
United States	System and method for providing a multi-function search box for creating word pages	US9418141B2	8/9/2007	8/16/2016
United States	System and method for providing a persistent navigation bar in a word page	US7930645B2	8/9/2007	4/19/2011
United States	System and method for providing enhanced content portability in a word page module	US8595183B2	8/9/2007	11/26/2013
United States	System and method for determining document and search over a word pages	US8972458B2	8/9/2007	3/3/2015
United States	Method for generating structured query results using lexical clustering	US7809745B2	8/9/2007	10/5/2010
United States	Method and system for wirelessly accessing a network	US10134043B2	8/13/2007	11/20/2018
United States	System and method for identifying similar media objects	US10152517B2	2/21/2013	12/11/2018
United States	System and method for selecting a training sample from a sample test based on data sample proximity	US7844567B2	8/13/2007	11/30/2010
United States	System and method for identifying similar media objects	US8407230B2	8/21/2007	3/26/2013
United States	System and method for identifying similar media objects	US7849092B2	8/13/2007	12/7/2010
United States	System and method for the generation of replacement titles for content items	US8055670B2	8/13/2007	11/8/2011
United States	Method and system for intent queries and results	US8903792B2	8/14/2007	12/2/2014
United States	Method for organizing structuredly similar web pages from a web site	US7941420B2	8/14/2007	5/10/2011
United States	System and method for providing media access patterns in a structured access	US9037576B2	8/16/2007	5/19/2015
United States	Personalized media player	US8316300B2	11/21/2011	11/20/2012
United States	Personalized media player	US787687B2	8/16/2007	11/25/2011
United States	Intelligent media buffering based on input focus proximity	US9148628B2	8/16/2007	9/29/2015
United States	Mobile carrier capability	US8010087B2	8/20/2007	8/30/2011

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United-States	Predictive-discrete-latent-factor-models-for-large-scale-dyadic-data	US7905367B2	8/20/2007	5/31/2011
United-States	Predictive-systems-for-web-search-with-statistical-machine-translation models	US788276B2	8/22/2007	8/31/2010
United-States	Engineered-orientated-recommendation-principle	US7904303B2	8/24/2007	3/8/2011
United-States	Secure-inter-module-communication-mechanism	US0424551B2	1/30/2012	8/23/2016
United-States	Secure-inter-module-communication-mechanism	US8108718B2	9/9/2008	1/31/2012
United-States	Secure-inter-module-communication-mechanism	US0108770B2	8/27/2007	1/31/2012
United-States	Integrating-spreadsheet-media-with-user-generated-content	US8639714B2	8/29/2007	1/28/2014
United-States	Module-hosting-and-content-generation-platform	US8397212B2	8/29/2007	3/12/2013
United-States	Integrating-spreadsheet-media-with-user-generated-content	US0436950B2	12/10/2013	9/6/2016
United-States	Integrating-spreadsheet-media-with-user-generated-content	US10013704B2	6/9/2016	7/3/2018
United-States	Automatic-extraction-of-semantics-from-text-information	US7899804B2	8/30/2007	3/1/2011
United-States	Automatic-extraction-of-semantics-from-text-information	US8604018B2	1/27/2011	11/15/2011
United-States	System-and-method-using-sampling-for-allocating-web-page-placements in-online-publishing-of-content	US8001001B2	8/30/2007	8/16/2011
United-States	Customizable-mobile-messaging-services	US0271147B2	2/15/2012	2/23/2016
United-States	Customizable-mobile-messaging-services	US0200257B2	8/30/2007	6/12/2012
United-States	Task-based-tool-for-scheduling-and-customizing-interactions-with-web documents	US8087033B2	8/31/2007	12/27/2011
United-States	Prediction-engines-using-probability-tree-and-computing-node probabilities-for-the-probability-tree	US7908238B1	8/31/2007	3/15/2011
United-States	System-and-method-for-recommending-songs	US783623B2	8/31/2007	8/24/2010
United-States	System-and-method-for-generating-a-playlist-from-a-mood-gradient	US8303518B2	11/6/2013	11/28/2017
United-States	System-and-method-for-generating-a-playlist-from-a-mood-gradient	US8583615B2	8/31/2007	11/12/2013
United-States	System-and-method-for-generating-a-mood-gradient	US0268812B2	10/31/2013	2/23/2016
United-States	Customized-today-module	US8065619B2	9/4/2007	11/22/2011
United-States	Instant-messaging-malware-protection	US8693308B2	9/5/2007	4/1/2014
United-States	Memory-efficient-storage-of-large-numbers-of-key-value-pairs	US7903819B2	9/7/2007	3/8/2011
United-States	Audible-metadata	US812023B2	9/10/2007	11/7/2017
United-States	Social-network-site-including-trust-based-wiki-functionality	US10354083B2	7/20/2015	7/16/2019

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United-States	Automatically-fetching web-content-with-user-assistance	US79041740B2	9/11/2007	5/10/2011
United-States	Social-network-site-including-content-based-recommendation functionality	US7945862B2	9/11/2007	5/17/2011
United-States	Social-network-site-including-trust-based-Wiki-functionality	US0087325B2	9/11/2007	7/21/2015
United-States	Social-network-site-including-intrafiction-functionality	US0177294B2	9/11/2007	11/3/2015
United-States	System-and-method-of-inter-widged-e-commerceability	US0836189B2	12/17/2012	12/5/2017
United-States	Social-network-site-including-interactive-digital-objects	US0037970B2	9/11/2007	5/19/2015
United-States	System-and-method-of-inter-widged-e-commerceability	US0352966B2	9/11/2007	1/8/2013
United-States	SMS-shortcode-allocation	US0467814B2	9/11/2007	6/19/2013
United-States	Targeted-in-group-advertising	US0767461B2	9/12/2007	9/19/2017
United-States	Method-and-systems-for-measuring-data-sets	US0108411B2	9/14/2007	1/31/2012
United-States	SMS-spam-control	US7853248B2	9/21/2007	12/14/2010
United-States	Mail-monetization-revenue-sharing-model	US0836722B2	9/25/2007	12/5/2017
United-States	Restoring-a-database-using-fuzzy-snapshot-techniques	US7725440B2	9/26/2007	5/25/2010
United-States	Web-based-competition-using-dynamic-preference-balloes	US0812514B2	9/26/2007	8/19/2014
United-States	Methods-for-cross-market-brand-advertising; content-metric-analysis; and-placement-recommendations	US0898753B2	9/27/2007	2/20/2018
United-States	Real-time-search-term-popularity-determination,by-search-origin geographic-location	US0946801B2	8/11/2008	4/17/2018
United-States	Real-time-search-term-popularity-determination,by-search-origin geographic-location	US7428522B1	9/27/2007	9/23/2008
United-States	Methods-for-managing-content-for-brand-related-media	US0290982B2	9/27/2007	10/16/2012
United-States	System-and-method-of-automatically-sizing-and-adapting-a-widget-to available-space	US10176272B2	9/28/2007	1/8/2019
United-States	System-and-method-for-contentual-commands-in-a-search-results-page	US02323895B2	9/28/2007	12/29/2015
United-States	Three-dimensional-website-visualization	US0402394B2	9/28/2007	3/19/2013
United-States	Gradient-based-optimization-of-a-ranking-measure	US7895198B2	9/28/2007	2/22/2011
United-States	System-and-method-for-inclusion-of-interactive-elements-on-a-search results-page	US0268856B2	9/28/2007	2/23/2016
United-States	Decentralized-record-expiry	US7783607B2	9/28/2007	8/24/2010
United-States	System-and-method-for-contextual-commands-in-a-search-results-page	US0140508B2	9/28/2007	3/20/2012

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United States	System and method for editing history in a search results page	US0100370B2	9/20/2007	4/31/2012
United States	System and method for keyboarding navigation in a search results page	US0850350B2	9/20/2007	9/30/2014
United States	Bootstraping social network using augmented peer-to-peer distribution of social network links and services	US0300306B2	10/3/2007	7/12/2016
United States	System and method for creating and applying predictive user click model to predict a target page associated with a search query	US0105743B2	10/4/2007	11/24/2015
United States	System and method for detecting interest based	US0280930B2	10/4/2007	10/2/2012
United States	System and method for eaching posts lists	US7890480B2	10/5/2007	2/15/2011
United States	Peer-to-peer browser content eaching	US10135910B2	5/19/2017	11/20/2018
United States	Device, method and computer program product for generating web feeds	US0448083B2	2/26/2014	9/20/2016
United States	Recommendation based on an ad option cycle	US0050960B2	10/9/2007	11/14/2011
United States	Device, method and computer program product for generating web feeds	US0706757B1	10/9/2007	4/22/2014
United States	Peer-to-peer browser content eaching	US0667714B2	1/11/2013	5/30/2017
United States	Recommendation based on an ad option cycle	US0762220B2	10/21/2011	6/24/2014
United States	Peer-to-peer browser content eaching	US0392604B2	10/9/2007	3/5/2013
United States	Network accessible media object index	US0145727B2	10/10/2007	3/27/2012
United States	Playlist resolver	US0959085B2	10/10/2007	2/17/2015
United States	Content based ad matching strategies that incorporate user feedback	US0156002B2	10/10/2007	4/10/2012
United States	Identity management	US7689627B2	10/15/2007	3/30/2010
United States	Method for presenting a web page	US0104775B2	10/16/2007	8/11/2015
United States	Method and system for creating superior information guides	US7962851B2	10/16/2007	6/14/2011
United States	Method and system for providing virtual co-presence to broadcast audiences in an online broadcasting system	US0887185B2	10/16/2007	11/11/2014
United States	System and method for implementing an ad management system for an extensible media player	US0843774B2	8/1/2008	12/12/2017
United States	Method and system for providing content according to personal preference	US08595226B2	10/17/2007	11/26/2013
United States	User augmented reality for camera enabled mobile devices	US0275414B1	5/11/2012	9/25/2012
United States	User augmented reality for camera enabled mobile devices	US0606317B2	10/31/2012	12/10/2013

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jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	Wireless universal transceiver for a mobile device with a camera	US6725490B2	10/18/2007	5/13/2014
United-States	System and method for location of network of edge devices using prediction	US7877335B2	10/18/2007	1/25/2011
United-States	Location of device and isolated sub-graphs through edge activation analysis weighted graph	US7882105B2	10/19/2007	8/31/2010
United-States	Method and system for creating a bulletin board system (BBS) macro rule including a map through a communication network	US6621043B2	10/19/2007	12/31/2013
United-States	Method and system for replacing hypertext in a webpage	US6751606B2	10/19/2007	6/10/2014
United-States	Delayed advertisement insertion in videos	US6108257B2	10/23/2007	1/31/2012
United-States	Visual universal decryption apparatus and methods	US6406424B2	10/25/2007	3/26/2013
United-States	Visual universal decryption apparatus and methods	US6712047B2	2/21/2013	4/29/2014
United-States	Toolbar signature	US7958363B2	10/26/2007	6/7/2011
United-States	Media enhancement mechanism using embedded code	US6290929B2	10/26/2007	10/16/2012
United-States	Shortcut sets for controlled environments	US7752285B2	10/26/2007	7/6/2010
United-States	Shortcut sets for controlled environments	US694614B2	10/17/2013	4/8/2014
United-States	Shortcut sets for controlled environments	US6566424B2	3/25/2010	10/22/2013
United-States	Text enhancement mechanism	US7899808B2	10/26/2007	3/1/2011
United-States	Media enhancement mechanism using embedded code	US6871841B2	10/15/2012	1/16/2018
United-States	Method for selecting electronic advertisements using machine translation techniques	US7912843B2	10/29/2007	3/22/2011
United-States	Method for selecting electronic advertisements using machine translation techniques	US6145649B2	12/16/2010	3/27/2012
United-States	System and method for global load balancing of requests for content based on membership status of a user with one or more subscriptions	US7904409B2	10/29/2007	3/8/2011
United-States	System and method for global load balancing of requests for content based on membership status of a user with one or more subscriptions	US6972326B2	1/27/2011	3/3/2015
United-States	System and method for global load balancing of requests for content based on membership status of a user with one or more subscriptions	US6692816B2	1/28/2015	6/27/2017
United-States	Representative keyword selection	US9292863B2	6/7/2013	3/22/2016
United-States	Community based web filtering	US7747680B2	10/30/2007	6/29/2010

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Representative-keyword-selection	US0463770B2	10/30/2007	6/11/2013
United States	Advection-priceing-substitute products	US0156032B2	10/31/2007	4/10/2012
United States	Text-display-of-globe-reference-information-based-on-relative-distance-to-a-user-location	US0775420B2	10/31/2007	7/8/2014
United States	System-and-method-for-updating-a-search-results-page-in-response-to-a user-map-interaction	US0418074B2	12/30/2011	8/16/2016
United States	Charity-website-on-social-networks-for-optimizing-contributions-to fund-raising campaigns	US0808654B2	10/31/2007	12/27/2011
United States	System-and/or-method-for-processing events	US7890404B2	10/31/2007	2/15/2011
United States	System-and-method-for-updating-a-search-results-page-in-response-to-a user-map-interaction	US0108416B2	10/31/2007	1/31/2012
United States	Distributed-collaborative-knowledged-generation-system-wherein student-performs-queries-using-a-dynamic-knowledgedatabase-and retrieved-subsets-of-data-are-shared-with-multiple-users-on-the-web	US7885913B2	10/31/2007	2/8/2011
United States	Distributed-collaborative-knowledged-generation-system	US0171258B2	2/4/2011	10/27/2015
United States	Techniques-for-modifying-a-query-based-on-query-associations	US0903035B2	11/12/2007	1/6/2015
United States	Web-page-configuration-using-graph-based-term-selection	US7769740B2	11/13/2007	8/3/2010
United States	Advertisements-on-mobile-devices-using-integrations-with-mobile applications	US0275410B2	11/14/2007	9/25/2012
United States	Advertisements-on-mobile-devices-using-integrations-with-mobile applications	US0583188B2	8/29/2012	11/12/2013
United States	Device-and-computer-program-product-for-sharing web feeds	US0150870B1	11/15/2007	4/3/2012
United States	Online-advertiser-keyword-allocation-to-decide-whether-to-acquire-the advertiser	US7805331B2	11/20/2007	9/28/2010
United States	Advertisement-display-depth-optimization-to-maximize-click-activity-payout yield	US7831456B2	11/21/2007	11/9/2010
United States	User-initiated-invoice-for-automatic-conference-participation-by-invoice	US0396461B2	11/15/2011	3/12/2013
United States	User-initiated-invoice-for-automatic-conference-participation-by-invoice	US081958B2	11/21/2007	12/20/2011
United States	Method-and-system-for-media-collection-expansion	US1015395B2	4/30/2014	12/11/2018
United States	Method-and-system-for-media-promotion	US0269089B2	11/22/2007	2/23/2016
United States	Method-and-system-for-media-collection-expansion	US0802606B2	11/22/2007	11/18/2014
United States	Targeted-distribution-of-electronic-coupons	US0280766B2	8/26/2011	10/2/2012

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Mobile device, tracking and location awareness	US7973655B2	11/12/2007	7/5/2011
United States	Determining a relevance function based on a query error derived using a structured-output learning technique	US6005774B2	11/12/2007	8/23/2011
United States	System and method to facilitate yearly inventory forecasting for network-based entities	US6010304B2	11/12/2007	8/30/2011
United States	Social news ranking using gossip distance	US7895284B2	11/12/2007	2/22/2011
United States	Social news ranking using gossip distance	US6370486B2	10/11/2011	2/5/2013
United States	Social news ranking using gossip distance	US6119631B2	11/16/2010	7/10/2012
United States	Enabling search on abbreviated search terms via messageing	US7966304B2	11/13/2007	6/11/2011
United States	Social news forwarding to generate interest clusters	US6676887B2	11/13/2007	3/18/2011
United States	Dynamic representation of group activity through reactive personas	US7805040B2	11/13/2007	2/12/2011
United States	E-commerce system using searchable tags	US7783624B2	11/23/2007	8/24/2010
United States	Adjusting stored query relevance data based on query term similarity	US6400843B2	11/24/2007	7/26/2016
United States	Time-based ordering of provided mobile content	US6812511B2	2/21/2012	8/19/2014
United States	Time-based ordering of provided mobile content	US6145643B2	11/24/2007	3/27/2012
United States	Call limiter for web services	US7908363B2	11/25/2007	3/15/2011
United States	Methods and apparatus for computing graph similarity via signature similarity	US6010709B2	11/25/2007	9/13/2011
United States	Methods and apparatus for computing graph similarity via signature similarity	US6880449B2	9/12/2008	11/14/2014
United States	Methods and apparatus for computing graph similarity via sequence similarity	US6417657B2	5/21/2011	4/9/2013
United States	Methods and apparatus for computing graph similarity via sequence similarity	US7996349B2	11/25/2007	8/9/2011
United States	Virtual billboard display on a mobile device	US10223711B2	6/13/2015	3/5/2019
United States	Virtual billboard display on a mobile device	US9064019B2	11/26/2007	6/13/2015
United States	Advertising associated with multimedia content	US10248956B2	11/21/2007	4/2/2019
United States	System and method for conditional delivery of messages	US10333886B2	10/12/2012	6/15/2019
United States	System and method for conditional delivery of messages	US6799371B2	9/24/2008	8/5/2014
United States	System and method for conditional delivery of messages	US6307029B2	11/21/2007	11/6/2012
United States	System and method for conditional delivery of messages	US1003688B2	8/11/2014	7/24/2018

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	System-and-method-for-contextual-advertising-of-communications-on-a-network	US0671154B2	12/10/2007	3/11/2014
United-States	System-and-method-for-optimizing-the-reserve-price-and-allocation-of-web-page-placements-in-an-online-keyword-auction-using-generalized-trade-reduction	US7860754B2	12/10/2007	12/28/2010
United-States	System-and-method-for-training-a-multi-class-support-vector-machine-to-select-a-common-subset-of-features-for-classifying-objects	US7836000B2	12/10/2007	11/16/2010
United-States	Unsupervised-detection-of-web-pages-corresponding-to-a-similarity-class	US7941421B2	3/2/2010	5/10/2011
United-States	Unsupervised-detection-of-web-pages-corresponding-to-a-similarity-class	US7707220B2	12/12/2007	4/27/2010
United-States	System-and-method-for-generating-a-classifier-model-for-classifying-web-content	US7949622B2	12/13/2007	5/24/2011
United-States	Mitigation-of-search-engine-hijacking	US7870131B2	12/13/2007	11/14/2011
United-States	Reduction-of-annotation-to-extract-structured-web-data	US8046360B2	12/13/2007	10/25/2011
United-States	Segmentation-of-search-topics-in-query-logs	US8478737B2	12/10/2010	7/2/2013
United-States	Method-and-apparatus-for-discovering-and-classifying-polysyllabic-word-instances-in-web-documents	US7917496B2	12/14/2007	3/20/2011
United-States	Method-and-apparatus-for-discovering-and-classifying-polysyllabic-word-instances-in-web-documents	US7957957B2	12/14/2007	6/7/2011
United-States	Method-and-apparatus-for-discovering-and-classifying-polysyllabic-word-instances-in-web-documents	US8135715B2	12/14/2007	3/13/2012
United-States	Segmentation-of-search-topics-in-query-logs	US7873389B2	12/14/2007	11/25/2011
United-States	Sharing-of-multiple-and-relevant-relevance-based-on-hop-distance-in-a-social-network	US8260882B2	12/14/2007	9/4/2012
United-States	Sharing-of-content-and-hop-distance-over-a-social-network	US7954058B2	12/14/2007	5/31/2011
United-States	Dynamically-reorganization-to-avoidmoderate-growwith-errors-replicated-databases	US7958088B2	12/14/2007	6/7/2011
United-States	System-for-opinion-reconciliation	US7895149B2	12/17/2007	2/22/2011
United-States	System-and-method-for-interact-marketing-by-endorsements	US8194928B2	12/17/2007	7/10/2012
United-States	Using-user-search-behavior-to-plan-online-advertising-campaigns	US8452768B2	12/17/2007	5/28/2013
United-States	Methods-for-augmenting-user-generated-content-using-a-normalizable-feature	US10102244B2	12/23/2013	1/29/2019
United-States	Method-and-apparatus-for-detecting-and-explaining-bursty-stream-events-in-tagged-groups	US8612409B2	12/18/2007	12/17/2013

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jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Method and apparatus for detecting and explaining bursty stream events in tagged groups	US0053186B2	12/6/2013	6/9/2015
United States	Methods for analyzing user-generated content using a machineizable feature	US0655719B2	12/18/2007	2/18/2014
United States	Portable broadcasting for mobile media content	US0265612B2	12/18/2007	9/11/2012
United States	Method and system for analyzing the quality of search results based on cohesion	US7720870B2	12/18/2007	5/18/2010
United States	System and method for facilitating trusted recommendations	US0108230B2	12/19/2007	1/31/2012
United States	Extraordinary semantic relations from queries	US7895235B2	12/19/2007	2/22/2011
United States	Using a bipartite graph to model and derive image and text associations	US001139B2	12/20/2007	8/16/2011
United States	DNS wildcard based on a tag to determine client location and resolver load for global traffic load balancing	US0756340B2	12/20/2007	6/17/2014
United States	DNS wildcard based on a tag	US0577910B2	2/27/2014	2/21/2017
United States	Method and system for monitoring rest web services	US0275855B2	12/20/2007	9/25/2012
United States	Web service multi-key rate limiting method and system	US7844707B2	12/20/2007	11/30/2010
United States	Exporting a query to include terms associated with a user's content	US7882124B2	12/28/2007	2/14/2011
United States	System and method for crawling content by search impact	US7899807B2	12/20/2007	3/14/2011
United States	Systems and methods for presenting visualizations of media access patterns	US0509203B2	12/20/2007	12/3/2013
United States	User vibration detection and response	US0527623B2	12/21/2007	9/3/2013
United States	Mobile click fraud prevention	US0799060B2	12/21/2007	8/5/2014
United States	System and method for analyzing and ranking reviews with inferred analytics	US0405637B2	7/27/2011	11/15/2016
United States	Media toolbar and aggregated/distributed media ecosystem	US0736216B2	12/26/2012	8/15/2017
United States	Maintaining state transition data for a plurality of users, modeling, detecting, and predicting user states and behavior	US7941383B2	12/21/2007	5/18/2011
United States	Method for determining network proximity for global traffic load balancing using passive-TCP performance instrumentation	US7962631B2	12/21/2007	6/14/2011
United States	Media toolbar and aggregated/distributed media ecosystem	US0375131B2	12/21/2007	2/12/2013
United States	Systems and methods of ranking attention	US769740B2	12/21/2007	8/3/2010
United States	System and method for analyzing and analyzing reviews with inferred analytics	US0032471B2	12/21/2007	10/4/2011

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Synthesizing humor	US04209145B2	12/24/2007	4/23/2013
United-States	User-waitlist-detection-and-response	US0832270B2	8/16/2013	9/9/2014
United-States	Using-product-and-social-network-data-to-improve-online-advertising	US0843406B2	12/27/2007	9/23/2014
United-States	System-and-method-for-adding-identity-to-web-rank	US0832069B2	12/4/2012	9/9/2014
United-States	System-and-method-for-generating-expertise-based-search-results	US0306965B2	11/9/2010	11/6/2012
United-States	System-and-method-for-generating-expertise-based-search-results	US7853583B2	12/27/2007	12/14/2010
United-States	System-and-method-for-adding-identity-to-web-rank	US0346750B2	10/27/2011	11/4/2013
United-States	System-and-method-for-adding-identity-to-web-rank	US7840548B2	12/27/2007	11/23/2010
United-States	System-and-method-for-ranking-of-reviews-personalized-to-prior-user-experience	US0364685B2	12/27/2007	11/29/2013
United-States	System-and-method-for-adding-identity-to-web-rank	US0051065B2	10/19/2010	11/11/2011
United-States	Method-and-apparatus-for-detecting-spam-user-created-content	US0095547B2	12/28/2007	11/10/2012
United-States	Creating-and-editing-media-objects-using-web-requests	US7840661B2	12/28/2007	11/23/2010
United-States	Determining-attention-data-using-DNS-information	US7949724B1	12/28/2007	5/24/2011
United-States	Method-of-creating-graph-structure-from-time-series-of-attention-data	US0046675B2	12/28/2007	10/25/2011
United-States	Method-of-creating-graph-structure-from-time-series-of-attention-data	US0621339B2	10/21/2011	12/31/2013
United-States	Mapless-global-server-load-balancing-of-network-traffic-using-anycast-routing	US0073953B2	5/28/2010	12/6/2011
United-States	Hot-term-prediction-for-contentual-shortcuts	US0060455B2	12/31/2007	11/15/2011
United-States	System-and-method-of-feature-selection-for-text-classification-using-subspace-sampling	US0046317B2	12/31/2007	10/25/2011
United-States	Predicting-and-ranking-search-query-results	US7831595B2	12/31/2007	11/9/2010
United-States	Computerized-system-and-methods-of-mapping-attention-based-on-W4-data-related-to-a-user	US10311452B2	3/24/2017	6/4/2019
United-States	Computerized-system-and-method-for-generating-and-updating-a-map-user-interface	US10212539B2	7/3/2017	2/19/2019
United-States	Systems-and-methods-of-mapping-attention	US0626685B2	11/4/2008	4/18/2017
United-States	Interest-mapping-system	US0706345B2	11/4/2008	7/11/2017
United-States	Automated-visual-segmentation-of-webpages	US0255793B2	11/8/2008	8/28/2012
United-States	Adapting-a-content-independent-relevance-function-for-identifying-relevant-search-results	US0775416B2	11/9/2008	7/8/2014

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Generating example data for testing database queries	US7805447B2	4/16/2008	9/28/2010
United-States	Query identification and normalization for web search	US7974971B2	6/17/2010	7/5/2011
United-States	Local query identification and normalization for web search	US7769746B2	1/16/2008	8/3/2010
United-States	System and method for word of mouth advertising	US10074093B2	7/25/2008	9/11/2018
United-States	Query processing for web search	US6296288B2	7/1/2011	10/23/2012
United-States	Learning framework for online applications	US7996897B2	1/23/2008	8/9/2011
United-States	Personalized ad delivery when ads fail to serve	US7805429B2	1/29/2008	9/28/2010
United-States	System and/or method for obtaining of user generated content boxes	US8856097B2	1/30/2008	10/7/2014
United-States	Apparatus and methods for tracking, querying, and visualizing behavior targeting processes	US7933884B2	1/30/2008	4/26/2011
United-States	Learning query rewrite policies	US8005828B2	2/5/2008	8/23/2011
United-States	Context sensitive query expansion	US7831588B2	2/5/2008	11/9/2010
United-States	Mobile marketing application	US8196095B2	2/5/2008	6/5/2012
United-States	Power management for proximity-based ad hoc networks	US7822564B2	2/8/2008	10/26/2010
United-States	Time-code validation and correction for proximity-based ad hoc networks	US9467808B2	6/6/2014	10/11/2016
United-States	Time-code validation and correction for proximity-based ad hoc networks	US8756030B2	2/8/2008	6/17/2014
United-States	Method and system for presenting targeted advertisement networks	US9773249B2	2/8/2008	9/26/2017
United-States	Data sharing based on proximity-based ad hoc network	US8060018B2	2/8/2008	11/15/2011
United-States	Location tracking based on proximity-based ad hoc network	US8045482B2	2/8/2008	10/25/2011
United-States	Automated document classifier tuning including training set adaptive to user browsing behavior	US7797260B2	2/11/2008	9/14/2010
United-States	Social network search	US8195656B2	2/13/2008	6/5/2012
United-States	Apparatus and methods for lossless compression of numerical attributes in rule-based systems	US8650144B2	2/14/2008	2/11/2014
United-States	Efficient compression of applications	US8813041B2	2/14/2008	8/19/2014
United-States	Search result abstract quality using community metadata	US8930376B2	2/15/2008	1/6/2015
United-States	Systems and methods of predicting resource usefulness using universal resource locators including counting the number of times URL features occur in training data	US7908234B2	2/15/2008	3/15/2011

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	System and method for writing data dependent upon multiple records in a distributed database	US7805172B2	2/19/2008	2/22/2011
United States	Systems and methods for providing direct communication between a from a personalized targeted advertisement	US8468049B2	2/19/2008	6/18/2013
United States	Method for generating forecasts using landscepes	US8296177B2	2/19/2008	10/23/2012
United States	Identifying IP addresses for spammers	US7849146B2	2/21/2008	12/7/2010
United States	System and method for template identification for electronic documents	US8239387B2	2/22/2008	8/7/2012
United States	System for query scheduling to maximize work sharing	US7877380B2	2/25/2008	1/25/2011
United States	Priorityizing media assets for publication	US7860878B2	2/25/2008	12/28/2010
United States	Filter for blocking image based spam	US8055078B2	2/28/2008	11/18/2011
United States	System and/or method for personalization of searches	US9043313B2	2/28/2008	5/16/2015
United States	Method and apparatus for social network marketing with an adware referral	US8388118B2	3/3/2008	9/17/2013
United States	Method and apparatus for social network marketing with consumer referral	US8554623B2	3/3/2008	10/8/2013
United States	Method and apparatus for social network marketing with brand referral	US8560390B2	3/3/2008	10/15/2013
United States	Search query categorization into verticals	US7895206B2	3/5/2008	2/22/2011
United States	Navigation using a search engine and phonetic voice recognition	US8380512B2	3/10/2008	2/19/2013
United States	System and method for automatic detection of ready queries	US8312011B2	5/16/2011	11/13/2012
United States	System and method for automatic detection of ready queries	US7970760B2	3/11/2008	6/28/2011
United States	System, method, and/or apparatus for recording and searching results	US8412702B2	3/12/2008	4/2/2013
United States	Personalizing a processor of a search advertisement using user behavior history	US8762364B2	3/18/2008	6/24/2014
United States	Graphical routing conversion	US8170340B2	3/18/2008	5/14/2012
United States	System and method for detecting human judgment effort and variation control	US8005775B2	3/18/2008	8/23/2011
United States	Classifying content resources using structured patterns	US8005862B2	3/20/2008	8/23/2011
United States	Using enhanced method to improve search result presentation	US8133570B2	3/27/2008	3/13/2012
United States	Search engine configuration to maximize performance of a search engine under high load	US8108340B2	3/28/2008	1/23/2012

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Method for segmenting webpages by parsing webpages into document object modules (DOMs) and creating weighted graphs	US7974934B2	3/28/2008	7/5/2011
United States	System and method for addressing communication	US689486B2	3/28/2008	11/19/2013
United States	System and method for optimizing the storage of data	US6745133B2	3/28/2008	6/3/2014
United States	System and method for optimizing the collection of data	US6429176B2	3/28/2008	4/23/2013
United States	System for providing mobile advertisement actions	US63733201B2	9/7/2017	8/6/2019
United States	System for providing mobile advertisement actions	US9785970B2	12/30/2013	10/10/2017
United States	System for providing information and navigation for information retrieval and ranking	US7849076B2	3/31/2008	12/7/2010
United States	Information retrieval using dynamic guided navigation	US979886B2	3/31/2008	10/24/2017
United States	Learning ranking functions for providing ranked results in a regression framework for information retrieval and ranking	US8051072B2	3/31/2008	11/11/2011
United States	System for providing mobile advertisement actions	US644808B2	3/31/2008	2/4/2014
United States	Cross-domain matching system	US9477717B2	3/31/2008	10/25/2016
United States	Ranking advertisement with pseudo relevance feedback and transition models	US9411886B2	3/31/2008	8/9/2016
United States	System and method for relationship between entities	US8386499B2	8/20/2012	2/26/2013
United States	System and method for relationship between entities	US9020960B2	2/26/2013	4/28/2015
United States	Access to trusted user generated content using social networks	US8250096B2	3/31/2008	8/21/2012
United States	System and method for modeling relationships between entities	US8271506B2	3/31/2008	9/18/2012
United States	System and method for providing dynamically updating applications in a television display environment	US9179086B2	4/4/2008	11/3/2015
United States	Local map chat	US9312380B2	4/4/2008	11/13/2012
United States	Method and system for compensating effects of audio-video ads on internet searches	US8374913B2	4/7/2008	2/12/2013
United States	System and method for detecting templates of a website using hyperlink analysis	US7962523B2	4/11/2008	6/14/2011
United States	System and/or method for bulk loading of records into an ordered distributed database	US8893131B2	4/11/2008	11/18/2014
United States	Abbreviation handling in web search	US8204874B2	9/17/2010	6/19/2012
United States	Abbreviation handling in web search	US7809715B2	4/15/2008	10/5/2010

jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	System-and-method-for-trail-identification-with-search-results	US09754044B2	9/25/2013	9/5/2017
United-States	System-and-method-for-trail-identification-with-search-results	US0589305B2	4/15/2008	11/19/2013
United-States	Normalizing query-words-in-web-search	US0010547B2	4/15/2008	8/30/2011
United-States	Identifying superphrases of text strings	US0655902B2	12/7/2011	2/18/2014
United-States	Identifying superphrases of text strings	US0095540B2	4/16/2008	1/10/2012
United-States	System-and-method-for-providing image-labeling-game-using-CBIR	US7962468B2	4/17/2008	6/14/2011
United-States	System-and-method-for-accelerating editorial processes for unsafe content-labeling-using-CBIR	US0037079B2	4/17/2008	10/11/2011
United-States	Ranking using word-overlap-and-correlation-features	US0918328B2	4/18/2008	12/23/2014
United-States	System-and-method-for-classifying tags of content-using a hyperlinked corpus-of-classified-web-pages	US0046361B2	4/18/2008	10/25/2011
United-States	Method-of-registering advertisement-entities-on-an-electronic-map	US0747602B2	4/21/2008	8/29/2017
United-States	Trail-based-exploration-of-a-repository-of-documents	US0001111B2	5/8/2008	8/16/2011
United-States	Trail-based-exploration-of-a-repository-of-documents	US0051068B2	4/21/2008	11/14/2011
United-States	Method-and-system-for-retrieving-and-organizing-web-media	US7953779B2	4/25/2008	5/31/2011
United-States	Search-query-scoring-and-popularity-monitoring-and-systems-and-methods-therefor	US0817896B2	4/28/2008	11/14/2017
United-States	Discovery-of-friends-using-social-network-graph-properties	US0744976B2	4/28/2008	6/3/2014
United-States	Method-and-apparatus-for-rating-user-generated-content-in-search results	US7949643B2	4/29/2008	5/24/2011
United-States	Method-and-apparatus-for-rating-user-generated-content-in-search results	US0290927B2	4/19/2011	10/16/2012
United-States	Ranking-documents-through-a-one-textual-shotcuts	US0135328B2	4/30/2008	9/15/2015
United-States	Modification-of-brand-representations-by-a-brand-engine-in-a-social network	US0058699B2	4/30/2008	6/16/2015
United-States	Modification-of-content-representation-by-a-brand-engine-in-a-social network	US0262764B2	4/30/2008	2/16/2016
United-States	Adaptive-user-feedback-window	US0332775B2	4/30/2008	12/11/2012
United-States	Generating-document-templates-that-are-robust-to-syntactical-variations	US7668942B2	5/2/2008	2/23/2010
United-States	Algorithmically-generated-topic-pages	US0798807B2	5/6/2008	10/24/2017
United-States	Automated-tagging-of-documents	US0156053B2	5/9/2008	4/10/2012

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United States	Method and apparatus for web-ad matching	US0824124B2	12/12/2013	11/21/2017
United States	Method, apparatus and computer-readable medium for indexing advertisements to combine relevance with consumer click feedback	US0725752B2	3/7/2012	5/13/2014
United States	Authentication detection	US0353008B2	5/19/2008	1/8/2013
United States	Distributed program filtering a plurality of global classifiers and a local classifier	US0408323B2	5/19/2008	1/31/2012
United States	System and method for automatically ranking lines of text	US0005845B2	5/20/2008	8/23/2011
United States	Virtual billboards	US0711176B2	5/22/2008	4/20/2014
United States	Real-time expert dialog service	US7974940B2	5/22/2008	7/5/2011
United States	Federation and interoperability between social networks	US0886817B2	5/22/2008	11/11/2014
United States	Automated ad group creation in a networked advertising environment	US0505097B2	5/30/2008	11/26/2013
United States	Application navigation	US0171429B2	5/30/2008	5/14/2012
United States	System and method for delivery of augmented messages	US0466124B2	4/4/2011	4/24/2012
United States	System and method for delivery of augmented messages	US7925708B2	6/2/2008	4/12/2011
United States	Contextual ranking of keywords using click data	US0051080B2	6/3/2008	11/14/2011
United States	Indexed indices in information extraction to improve records extracted per annotation	US0010544B2	6/6/2008	8/30/2011
United States	Identifying regional sensitive queries in web search	US7949672B2	6/10/2008	5/24/2011
United States	System and/or method for balancing allocation of data among reduce processes by reallocation	US0726290B2	6/12/2008	5/13/2014
United States	Creation and enrichment of search based taxonomy for finding information from semistructured data	US0126908B2	6/18/2008	2/28/2012
United States	Methods and apparatuses for adapting a ranking function of a search engine for use with a specific domain	US0126839B2	6/19/2008	2/28/2012
United States	Mobile imaging device as navigator	US0478008B2	10/3/2011	7/2/2013
United States	Mobile imaging device as navigator	US0798323B2	8/8/2012	8/5/2014
United States	Adaptive matched-view selection for databases	US7921103B2	6/20/2008	4/5/2011
United States	Mobile imaging device as navigator	US0807498B2	2/11/2013	11/25/2014
United States	Mobile imaging device as navigator	US009894B2	6/20/2008	11/7/2012
United States	Assigning human-understandable labels to web pages	US048528B2	6/23/2008	5/22/2012
United States	Automated friend finder	US0027931B2	6/26/2008	9/27/2011

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United-States	System-and-method-for-determination-and-display-of-personalized distance	US0222780B2	12/31/2013	12/29/2015
United-States	Systems-and-methods-for-tokenizing-and-interpreting-uniform-resource locators	US8001106B2	6/27/2008	8/16/2011
United-States	System-and-method-for-determination-and-display-of-personalized distance	US8706406B2	6/27/2008	4/22/2014
United-States	Systems-and-method-for-determination-and-display-of-personalized distance	US0574899B2	11/30/2015	2/21/2017
United-States	System-and-method-for-location-based-media-delivery	US8813107B2	6/27/2008	8/19/2014
United-States	Compiler-based-code-modification-for-use-in-document-ranking	US8621424B2	6/30/2008	12/31/2013
United-States	Analysis-of-database-performance-reports-for-graphical-presentation-of summary-results	US0156421B2	6/30/2008	4/10/2012
United-States	prefetching-data-for-document-ranking	US0458170B2	6/30/2008	6/4/2013
United-States	Automated-system-and-method-for-creating-a-content-rich-site-based-on an-embedding-subject-of-interest-search	US0271474B2	6/30/2008	9/18/2012
United-States	Forecasting-association-rules-across-user-engagement-levels	US0170974B2	7/7/2008	5/14/2012
United-States	Real-time-detection-of-parking-space-availability	US7893847B2	7/9/2008	2/22/2011
United-States	Systems-and-methods-for-query-expansion-in-sponsored-search	US0521731B2	7/9/2008	8/27/2013
United-States	Operations-of-multi-level-nested-data-structure	US8078638B2	7/9/2008	12/13/2011
United-States	Operations-on-multi-level-nested-data-structure	US0878645B2	7/9/2008	12/13/2011
United-States	Anti-spam-profile-clustering-based-on-user-behavior	US0554847B2	7/15/2008	10/8/2013
United-States	Method-and-apparatus-for-sharing-concurrent-ad-hoc-web-content between-users-visiting-the-same-web-pages	US0009228B2	1/13/2012	4/14/2015
United-States	Method-and-apparatus-for-sharing-concurrent-ad-hoc-web-content between-users-visiting-the-same-web-pages	US0994638B2	7/16/2008	1/17/2012
United-States	Virtual-notes-in-a-reality-overlay	US0191238B2	7/23/2008	11/17/2015
United-States	Virtual-notes-in-a-reality-overlay	US0288079B2	1/27/2012	3/15/2016
United-States	Decision-tree-coalescing-for-document-ranking	US0065242B2	7/23/2008	11/12/2011
United-States	Tokenization-platform	US0195738B2	8/13/2012	11/12/2015
United-States	Tokenization-platform	US0301437B2	7/24/2008	10/30/2012
United-States	Techniques-for-visual-representation-of-user-activity-associated-with-an information-resource	US0210916B2	7/25/2008	7/10/2012

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United States	Techniques for generating a visual representation of user activity associated with an information resource	US0141236B2	4/10/2012	8/18/2015
United States	Federated community search	US10025855B2	7/19/2008	7/17/2018
United States	Region and user information resource identifiers (URL) for media objects	US086700B2	7/19/2008	12/27/2011
United States	Building a resource document based on a plurality/explicit actions	US0361375B2	7/19/2008	6/7/2016
United States	Research tool access based on a resource session detection	US0832098B2	7/19/2008	9/19/2014
United States	System and method for improved mapping and routing	US10230803B2	7/19/2008	3/12/2019
United States	System and method for content enhancement mapping	US10133458B2	12/19/2014	11/20/2018
United States	System and method for content enhancement mapping	US0959100B2	11/11/2013	2/17/2015
United States	System and method for content enhanced mapping	US0583668B2	7/19/2008	11/12/2013
United States	Bandwidth and cost management for ad hoc networks	US7792040B2	7/19/2008	9/7/2010
United States	Automatic updating of content included in research documents	US0775465B2	7/19/2008	7/8/2014
United States	System and method for loading records into a partitioned database table	US0051032B2	7/11/2008	11/14/2011
United States	Framework to evaluate content display policies	US0504558B2	7/11/2008	8/6/2013
United States	Classifying documents using implicit feedback and query patterns	US0645360B2	7/11/2008	2/4/2014
United States	Systems and methods for determining a tag match ratio	US0024342B2	7/11/2008	9/10/2011
United States	Method and system for displaying online advertisement	US0280770B2	12/11/2011	3/8/2016
United States	Method and system for displaying online advertisement	US0639845B2	8/6/2008	5/21/2017
United States	Interconnected universal search experience across multiple websites	US0489582B2	8/6/2008	7/16/2013
United States	Content based search arrangement for mobile devices	US0367618B2	8/7/2008	6/14/2016
United States	Window overlay for online collaboration platform	US060828B2	8/8/2008	11/15/2011
United States	Facilitated search for online collaboration platform	US0606200B2	8/8/2008	8/23/2011
United States	Notification controls for online collaboration platform	US060823B2	8/8/2008	11/15/2011
United States	System and method for combating phishing	US0528079B2	11/12/2008	9/3/2013
United States	System and method for compiling a set of domain names to recover	US0499032B2	8/14/2008	7/10/2013
United States	Online batch execution	US0181178B2	8/14/2008	5/15/2012
United States	Generating subelement titles for web URLs	US0346754B2	8/19/2008	11/12/2013
United States	Measuring topical coherence of keyword sets	US7577652B1	9/13/2008	8/18/2009
United States	Measuring topical coherence of keyword sets	US0577930B2	8/20/2008	11/5/2013

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United States	Advertising in an online communication	US6700609B2	8/20/2008	4/15/2014
United States	Information sharing in an online communication	US6719258B2	8/20/2008	5/6/2014
United States	System and method for content enhancement messaging	US6836506B2	8/24/2008	2/26/2013
United States	System and method for assisting search requests with vertical suggestions	US6810537B2	8/27/2008	8/30/2011
United States	Embedded web application agent	US68200970B2	8/28/2008	4/28/2015
United States	Generation of search result subsets	US68084390B2	8/29/2008	3/17/2015
United States	Deliverable partitioned results based on system metrics in network content delivery systems	US6819899B2	8/28/2008	9/13/2011
United States	Performance log scale score structure search allowing partial schema changes without system downtime	US7689650B1	9/12/2008	3/30/2010
United States	Processing information for clips of broadest program category	US68367170B2	8/31/2012	5/19/2015
United States	Restoring program information for clips of broadest programs shared online	US6424349B2	5/18/2015	8/23/2016
United States	Restoring program information for clips of broadest programs shared online	US6295363B2	9/15/2008	10/23/2012
United States	Efficient data layout techniques for fast machine-learning based document ranking	US6533129B2	9/16/2008	9/10/2013
United States	System and method for detecting internet bots	US6433785B2	9/16/2008	4/30/2013
United States	Apparatus, method, and apparatus for managing scalable and traceable exchanges of content between advertisers and publishers for mobile devices	US6391798B2	9/16/2008	3/5/2013
United States	Method and apparatus for advertising a bidding language for online advertising	US6527353B2	9/16/2008	9/3/2013
United States	System and method for distributing media related to a location	US6281027B2	9/19/2008	10/2/2012
United States	System and method for distributed media related to a location	US6856375B2	9/14/2012	10/7/2014
United States	System and method for ranking search results using social information	US7966325B2	9/24/2008	6/21/2011
United States	Time-tagged metadata information and content display method and system	US6856641B2	9/24/2008	10/7/2014
United States	Optimization filters for user generated content searches	US6793249B2	9/24/2008	7/29/2014
United States	Automated tagging of objects in databases	US6407216B2	9/25/2008	3/26/2013

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United States	Associating objects in data bases by rate-based tagging	US6743009B2	9/25/2008	4/20/2014
United States	Intergration of open advertisement with e-commerce activities	US6374949B2	9/26/2008	2/12/2013
United States	Estimating on-line advertising inventory value based on content eligibility information	US6538800B2	9/29/2008	9/17/2013
United States	Communication network	US6408481B2	9/29/2008	1/31/2012
United States	Classification and cluster analysis group detection and redirection	US7809824B2	9/29/2008	10/5/2010
United States	User refinement based on user selection	US6819003B2	4/23/2013	8/26/2014
United States	System and method for detecting user interaction pattern based on limited activities	US740986B2	9/30/2008	8/22/2017
United States	Content access and annotation system and method	US6504587B2	9/30/2008	8/6/2013
United States	Age-targeted online marketing using inferred age ranges information	US9996844B2	9/30/2008	6/12/2018
United States	Click-through rate prediction system and method	US6738436B2	9/30/2008	5/27/2014
United States	Decomposition based to generate dynamic data driven advertisement	US7941340B2	9/30/2008	5/10/2011
United States	System for optimizing ad performance at campaign running time	US645205B2	9/30/2008	2/4/2014
United States	System and method for reporting and analysis of media consumption data	US6004848B2	9/30/2008	3/21/2017
United States	Consensus-based reliable message	US605917B2	9/30/2008	8/23/2011
United States	User refinement based on user selection	US6452793B2	9/30/2008	5/28/2013
United States	User log mining for detecting spam hosts	US6996622B2	9/30/2008	3/31/2015
United States	Method and system for verifying a recipient of a communication	US7945630B2	9/30/2008	5/17/2011
United States	System and method for content enhanced mapping within a user interface	US6408778B2	9/30/2008	1/31/2012
United States	System and method for content enhanced mapping within a user interface	US6026917B2	10/11/2011	5/5/2015
United States	Demanded for reviewing system and method for online advertisement	US6321280B2	10/14/2008	11/27/2012
United States	Interactive system for information retrieval and exploration	US6719292B2	10/7/2008	5/6/2014
United States	Content sensitive user group communication	US9900277B2	12/2/2013	2/20/2018
United States	System and method for maintaining content sensitive user groups	US6601377B2	10/6/2008	12/3/2013
United States	Detection of undesirable web pages	US7974970B2	10/9/2008	7/5/2011
United States	System and method for content access control	US6607096B2	6/23/2014	3/28/2017

US Assets

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United-States	System-and-method-for-content-access-control	US6763087B2	10/09/2008	6/24/2014
United-States	Method-and-system-for-providing-customized-regional-maps	US636605B2	10/13/2008	5/10/2016
United-States	System-for-automatically-enlarging-queries	US6041733B2	2/09/2009	10/18/2011
United-States	System-and-methodology-for-a-multi-site-search-engine	US609545B2	10/14/2008	1/10/2012
United-States	Phishing-abuse-recognition-in-web-pages	US6433141B2	5/21/2012	4/30/2013
United-States	Phishing-abuse-recognition-in-web-pages	US6189924B2	10/15/2008	5/29/2012
United-States	Recognizing-reality-using-a-reality-overlay-device	US6480910B2	10/24/2008	11/11/2016
United-States	Digital-image-retrieval-by-aggregating-search-results-based-on-visual-annotations	US7962500B2	10/24/2008	6/14/2011
United-States	Methods-for-improving-the-diversity-of-image-search-results	US6171043B2	10/24/2008	5/12/2012
United-States	Method-and-apparatus-for-estimating-the-size-of-rendered-text	US6037410B2	10/27/2008	10/11/2011
United-States	Scalable-firewall-policy-management-platform	US6146134B2	10/28/2008	3/27/2012
United-States	Scalable-firewall-policy-management-platform	US6763074B2	2/16/2012	6/24/2014
United-States	Video-comparing-using-fingerprints-representations	US6433175B2	10/28/2008	4/30/2013
United-States	Automated-user-segment-selection-for-delivery-of-online-advertisements	US6234166B2	10/29/2008	7/31/2012
United-States	System-and-method-for-recessing-an-inventory-of-online-advertisements	US6311882B2	10/30/2008	11/13/2012
United-States	System-and-method-for-recessing-an-inventory-of-online-advertisements	US636798B2	10/30/2008	12/5/2017
United-States	Cross-network-social-networking-application-architecture	US6224692B2	10/31/2008	7/17/2012
United-States	System-and-method-for-pricing-of-overlapping-impression-pools-of-online-advertisements	US6037053B2	10/31/2008	10/11/2011
United-States	Virtual-environment-spawning-desktop-and-cloud	US6965842B2	7/15/2014	2/24/2015
United-States	Adaptive-weighted-crawling-of-user-activity-feeds	US6468158B2	11/6/2008	6/18/2013
United-States	Virtual-environment-spawning-desktop-and-cloud	US6838527B2	11/6/2008	9/16/2014
United-States	Enhanced-matching-through-explore/exploit-schemes	US6560293B2	8/8/2012	10/15/2013
United-States	Enhanced-matching-through-explore/exploit-schemes	US6244517B2	11/7/2008	8/14/2012
United-States	Exploring-large-textual-data-sets-via-interactive-aggregation	US6732160B2	11/11/2008	5/20/2014
United-States	Single-use-web-based-passwords-for-network-login	US6365267B2	11/13/2008	11/20/2013
United-States	Automated-social-listing-owner-authentication-system	US6353018B2	11/13/2008	11/8/2013

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United States	Dynammic-feature-weighting	US10210170B2	11/18/2008	2/19/2019
United States	Click-model-for-search-ranking	US6671093B2	11/18/2008	3/11/2014
United States	System-and-method-for-determining-relevance-from-URL-based-content-queries	US6400987B2	9/19/2011	7/26/2016
United States	Efficient-caching-for-dynamic-web-service-queries-using-cacheable-fragments	US7962502B2	11/18/2008	6/14/2011
United States	System-and-method-for-delta-priority-in-URL-based-content-queries	US6805123B2	11/18/2008	10/31/2017
United States	System-and-method-for-generating-of-URL-based-content-queries	US6060492B2	11/18/2008	11/15/2011
United States	System-and-method-for-determining-relevance-from-URL-based-content-queries	US6024317B2	11/18/2008	9/20/2011
United States	Computerized-systems-and-methods-for-generating-a-dynamic-web-page-based-on-received-content	US6971842B2	6/23/2016	5/15/2018
United States	Efficient-caching-for-dynamic-web-service-queries-using-cacheable-fragments	US6386507B2	5/11/2011	2/26/2013
United States	System-and-method-for-URL-based-queries-for-retrieving-delta-related-to-a-content	US6032508B2	11/18/2008	10/4/2011
United States	Method-and-system-for-generating-a-hyperlink-click-graph	US7945565B2	11/20/2008	5/17/2011
United States	Clustered-index-search-results-for-webpage-ranking-relevance-election	US6112428B2	11/24/2008	2/7/2012
United States	Identifying-and-extracting-implicit-temporality-qualified-queries	US6156111B2	11/24/2008	4/10/2012
United States	Method-and-apparatus-for-organizing-digital-photoalbums	US6110927B2	11/25/2008	8/18/2015
United States	Method-for-storing-bookmarks-for-search-results-from-previously-submitted-queries-by-a-user-and-storing-links-to-selected-documents-by-the-user	US6868551B2	9/14/2012	10/21/2014
United States	Method-for-storing-bookmarks-for-search-results-from-previously-submitted-queries-by-a-user-and-storing-links-to-selected-documents-by-the-user	US6290944B2	11/25/2008	10/16/2012
United States	High-speed-search-engine	US5950483B2	11/25/2008	3/14/2017
United States	Navigation-assistance-for-search-engines	US6484184B2	4/27/2011	7/9/2013
United States	Distribution-items-within-geographically-distributed-databases	US6495021B2	11/26/2008	7/23/2013
United States	Navigation-assistance-for-search-engines	US7949647B2	11/26/2008	5/24/2011
United States	System-and-method-for-content-based-queries-and-generating	US6856167B2	10/3/2011	10/7/2014
United States	System-and-method-for-content-based-queries-and-generating	US6055675B2	11/5/2008	11/8/2011
United States	Determining-related-keywords-based-on-lifecycle-feeds	US6515908B2	11/4/2012	8/20/2013

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United-States	Determining-related-keywords based-on-lifecycle-feeds	US0142393B2	12/5/2008	2/7/2012
United-States	System-and-method-for-logging-operations	US0682842B2	12/9/2008	3/25/2014
United-States	Rules-and-method-for-improving-image-research-relevance-through-gamers	US0296305B2	12/9/2008	10/23/2012
United-States	Minimizing-broad-based-query-aspects-from-user-search-sessions	US0305051B2	12/10/2008	4/5/2016
United-States	System-and-method-for-in-context-exploration-of-search-results	US0489420B2	2/29/2016	11/8/2016
United-States	System-and-method-for-in-context-exploration-of-search-results	US0317602B2	12/11/2008	4/19/2016
United-States	System-and-method-for-a-data-driven-meta-objective-mechanism-for-spoken-search	US0484094B2	7/30/2012	7/9/2013
United-States	System-and-method-for-a-data-driven-meta-objective-mechanism-for-spoken-search	US0260680B2	12/18/2008	9/4/2012
United-States	System-and-method-for-automated-service-recommendations	US0166016B2	12/19/2008	4/24/2012
United-States	Conversion-and-query-for-data-distributed-on-web-sites	US0413063B2	1/13/2009	4/2/2013
United-States	Conversion-service-for-data-distributed-on-web-sites	US0504931B2	12/19/2008	8/6/2013
United-States	Method-and-system-for-detecting-image-spam	US0731284B2	12/19/2008	5/20/2014
United-States	System-and-method-of-guess-based-prediction-in-search-result-selection	US0352466B2	12/22/2008	1/8/2013
United-States	System-and-method-for-improved-classification	US0639780B2	12/22/2008	5/2/2017
United-States	Content-transfer-in-search-advertising	US0886636B2	12/23/2008	11/11/2014
United-States	System-and-method-for-dynamically-monetizing-keyword-values	US069160B2	12/24/2008	11/29/2011
United-States	Rapid-iterative-development-of-classifiers	US0849790B2	12/24/2008	9/30/2014
United-States	Robust-workers-for-web-extraction	US0762820B2	12/24/2008	6/24/2014
United-States	Optimal-site-hashtag-assignments-for-consistent-spoken-search	US0051062B2	12/24/2008	11/11/2011
United-States	Method-and-system-for-determining-near-duplicate-images	US0213723B2	12/29/2008	7/3/2012
United-States	Image-segmentation	US0682072B2	12/30/2008	3/25/2014
United-States	Slide-show-wide-file-detection	US0498978B2	12/30/2008	7/30/2013
United-States	Augmenting-online-content-with-additional-content-relevant-to-user-interest	US0152722B2	12/31/2008	10/6/2015
United-States	Secure-browser-based-applications	US0635701B2	1/7/2009	1/21/2014
United-States	Large-scale-behavioral-targeting-for-advertising-over-a-network	US0150723B2	1/9/2009	4/3/2012
United-States	Optimization-of-map-views-based-on-real-time-data	US10209079B2	1/13/2009	2/19/2019

jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Media-object metadata engine, configured to determine relationships between persons	US08031276B2	4/13/2009	9/9/2014
United States	Dynamically-enabled location-using captured data of real-life objects	US08260666B2	4/14/2009	9/4/2012
United States	Searchable semi-structured named entity detection	US08073877B2	4/20/2009	12/6/2011
United States	Web-hosted framework for mobile applications	US08083791B2	4/22/2009	7/14/2015
United States	Selection-for-a-mobile-device using weighted virtual titles	US7693907B1	4/22/2009	4/6/2010
United States	Network aggregator	US0804040B2	10/16/2014	2/13/2018
United States	Network aggregator	US0869256B2	4/23/2009	10/21/2014
United States	System and method for evaluating a just-in-time reputation score	US08266158B2	4/20/2009	9/11/2012
United States	System and method for commonal search	US10275530B2	2/2/2009	4/30/2019
United States	Protecting privacy of shared personal information	US08364960B2	2/2/2009	1/29/2013
United States	Automated search	US0802840B2	6/3/2013	4/7/2015
United States	Automated search	US0458177B2	2/2/2009	6/4/2013
United States	Protecting privacy of shared personal information	US0752196B2	1/4/2013	6/10/2014
United States	Rare-query-expression-by-web-feature matching	US0676827B2	2/4/2009	3/18/2014
United States	Instantaneous search results with abstracts	US7958109B2	2/6/2009	6/7/2011
United States	Predicting the outcome of events based on related internet activity	US08209277B2	2/9/2009	6/26/2012
United States	Categorizing queries and expanding keywords with a coreference graph	US0841729B2	2/20/2009	10/18/2011
United States	Method and system for query refinement using interrelations with web advertisements	US0812362B2	2/20/2009	8/19/2014
United States	Algorithmically-generated topic pages with interactive advertisements	US0700630B2	2/24/2009	4/15/2014
United States	Edge attribute aggregation in a directed graph	US0895560B2	2/26/2009	1/10/2012
United States	Smart recovery of asynchronous processing	US7984330B2	2/27/2009	7/19/2011
United States	Automotive power layout validation	US0340408B2	2/27/2009	12/25/2012
United States	System and method for composite record keys ordered in a flat-key space for a distributed database	US0827961B2	2/27/2009	9/27/2011
United States	Optimized search result columnar on-search results pages	US0819746B2	3/2/2009	9/13/2011
United States	Method and system for web searching	US0934315B2	10/24/2016	4/3/2018
United States	Optimized search result columnar on-search results pages	US0806966B2	8/9/2011	11/6/2012
United States	Personalized search results utilizing previously navigated web sites	US0477763B2	3/2/2009	10/25/2016

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United-States	Apparatus-and-methods-for-processor-training-in-information-extraction	US64412652B2	3/4/2009	4/2/2013
United-States	Bid-gateways-and-architecture-for-an-online-advertisement-bidding-system	US6135626B2	3/5/2009	3/13/2012
United-States	Diversifying-recommendation-results-through-explanationation	US6359280B2	3/12/2009	1/22/2013
United-States	Context-based-networking	US6700648B2	3/16/2009	4/15/2014
United-States	Spoken-search-results-re-ranking-based-on-linking-associations	US6429157B2	10/5/2011	4/23/2013
United-States	Spoken-search-results-re-ranking-based-on-linking-associations	US6041715B2	3/24/2009	10/18/2011
United-States	Computer-based-location-identification-using-images	US6020520B2	7/8/2013	4/28/2015
United-States	Computer-based-location-identification-using-images	US6483715B2	3/26/2009	7/9/2013
United-States	System-and-method-for-conducting-a-profile-based-search	US9519716B2	3/31/2009	12/13/2016
United-States	Determining-user-preference-of-items-based-on-user-ratings-and-user-features	US6301624B2	3/31/2009	10/30/2012
United-States	Determining-user-preference-of-items-based-on-user-ratings-and-user-features	US6909626B2	10/25/2012	12/9/2014
United-States	Automated-screen-scraping-via-granular-inclusion	US6838625B2	4/3/2009	9/16/2014
United-States	Method-of-manufacturing-a-wiring-board	US6286341B2	4/8/2009	10/16/2012
United-States	Constructing-a-data-pipeline-having-scalability-and-low-latency	US9723089B2	4/14/2009	8/14/2017
United-States	Subject-based-visibility	US10282373B2	4/17/2009	5/7/2019
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US10117362B2	11/24/2015	10/30/2018
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US10212858B2	4/21/2009	2/19/2019
United-States	Personalized-web-search-ranking	US6032535B2	4/21/2009	10/4/2011
United-States	Interacting-with-internet-servers-without-keyboards	US6613047B2	4/21/2009	12/17/2013
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US7800900B1	4/21/2009	9/21/2010
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US9204577B2	5/27/2014	12/14/2015
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US6755182B2	9/26/2011	6/17/2014
United-States	Cold-row-encapsulation-for-server-farm-cooling-system	US6054625B2	4/21/2009	11/8/2011
United-States	Best-fit-map-searching	US6060510B2	4/29/2009	11/15/2011
United-States	A-Computerized-System-And-Method-For-Dynamically-Determining-A-Replacement-Item-For-A-Provided-Item-Via-A-Web-based-Application	US12434575	5/1/2009	
United-States	COMPUTERIZED-SYSTEM-AND-METHOD-FOR-PROVIDING-AN-AUTOMATICALLY-UPDATEABLE-WEB-BASED-APPLICATION-INTERFACE	US12434580	5/1/2009	

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United States	Content-summary map and segment creation	US0386935B2	5/6/2009	2/26/2013
United States	Circuit module and method of manufacturing the same	US0107324B2	4/4/2014	8/11/2015
United States	Circuit module and method of manufacturing the same	US0609233B2	5/11/2009	4/15/2014
United States	Circuit module and method of manufacturing the same	US0324647B2	8/10/2015	4/26/2016
United States	Circuit module and method of manufacturing the same	US0883587B2	3/30/2016	1/30/2018
United States	Systems and methods for generating a web page based on search term popularity data	US0965869B2	5/13/2009	2/24/2015
United States	Computerized system and method for displaying a map system user interface and digital content	US10282752B2	5/15/2009	5/7/2019
United States	Open theme builder and API	US0392828B2	5/20/2009	3/5/2013
United States	Collection and use of fine grained user behavior data	US10134044B1	5/26/2009	11/20/2018
United States	System for packaging native program extensions together with virtual machine applications	US0607224B2	5/28/2009	12/10/2013
United States	Open search assist	US0825691B2	6/3/2009	9/2/2014
United States	Graph based seed selection algorithm for web crawlers	US0484180B2	6/3/2009	7/9/2013
United States	All-in-one Chinese character input method	US0104244B2	6/5/2009	8/11/2015
United States	System and method for offline data generation for online system analysis	US0321873B2	6/9/2009	11/27/2012
United States	System and method for development of search engines metrics	US0024336B2	6/9/2009	9/20/2011
United States	Media identification system with fingerprint database balanced decoding to search words	US0713068B2	6/11/2009	4/29/2014
United States	Media identification system with fingerprint database balanced decoding to search words	US0202514B2	4/24/2014	3/22/2016
United States	User location dependent DNS lookup	US06060570B2	6/12/2009	11/15/2011
United States	Dynanmic access control lists	US0270679B2	6/23/2009	2/23/2016
United States	Operating systems for recording market place	US10296937B2	6/29/2009	5/21/2019
United States	Entropy based mixing and permutation	US0533203B2	7/7/2009	9/10/2013
United States	Entropy based mixing and permutation	US0015170B2	9/6/2013	4/21/2015
United States	Activity based users' interests modeling for determining content relevance	US0612435B2	7/16/2009	12/17/2013
United States	Efficient algorithm for pairwise preference learning	US0280820B2	7/16/2009	10/2/2012

jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Multi-chip package and method	US650134B2	7/21/2009	2/25/2014
United States	Processing results based on server-clientable criteria	US674497B2	7/21/2009	6/3/2014
United States	Customizing web pages for mobile web	US762764B1	7/23/2009	12/1/2009
United States	Mixing source with user learning for improved entity extraction	US699008B2	7/24/2009	7/30/2013
United States	Content-based multi-lingual binary trees	US6078642B1	7/24/2009	12/13/2011
United States	Supply chain management data in marketing item record	US676231B2	9/14/2012	6/24/2014
United States	Image similarity from discrete scores	US9384214B2	7/31/2009	7/5/2016
United States	Supply chain management data in marketing item record	US632677B2	7/31/2009	12/4/2012
United States	System and method for internet-driven search result presentation	US6341157B2	7/31/2009	12/25/2012
United States	Information similarity and relatedness detection for user in distributed computing environment	US6914316B2	8/3/2009	12/16/2014
United States	Taxonomy-driven lumping for document mining	US634668B2	8/3/2009	1/1/2013
United States	Machine-based document analysis	US660733B2	8/4/2009	12/10/2013
United States	System and method for verification of commercial campaigns	US10223701B2	8/6/2009	3/5/2019
United States	System for processing item expansion and recommendation	US637028B2	8/6/2009	2/5/2013
United States	Automatic classification of segmented portions of web pages	US514216B2	9/8/2014	12/6/2016
United States	Segmentation query matching	US646587B2	8/10/2009	10/11/2016
United States	Automatic classification of segmented portions of web pages	US684972B2	8/10/2009	9/30/2014
United States	Live action icons for the internet	US663384B2	8/11/2009	3/25/2014
United States	Personal data platform	US6914342B2	8/12/2009	12/16/2014
United States	System and method for processing information on a mobile device	US636461B2	8/13/2009	1/29/2013
United States	Push-pull caching for social network information	US913732B2	1/17/2014	9/15/2015
United States	Platform for delivery of heavy content to a user	US609885B2	8/17/2009	8/4/2015
United States	Push-pull caching for social network information	US655842B2	8/17/2009	2/18/2014
United States	Hyperlinking web content	US6365064B2	8/19/2009	1/29/2013
United States	Circuit board structure for processing and electrical component and a method for manufacturing a circuit board structure component	US663156B2	8/24/2009	1/21/2014

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Method for efficient storage and replacement	US0055615B2	8/25/2009	11/8/2011
United-States	System and method for finding top N pairs in a map-reduce setup	US0788499B2	8/27/2009	7/22/2014
United-States	Above-the-fold	US1255039	8/28/2009	
United-States	Matching reviews to objects using a language model	US0180755B2	9/4/2009	5/15/2012
United-States	Synchronization of advertisement display updates with user revisitation rates	US0775945B2	9/4/2009	7/8/2014
United-States	Methodization of interactive network-based information objects	US0760922B2	9/10/2009	9/12/2017
United-States	Systems and methods for providing advanced search result page content	US0452762B2	9/20/2009	5/28/2013
United-States	Systems and methods for personalized search result page content	US0645358B2	4/28/2010	2/4/2014
United-States	Systems and methods for providing advanced search result page content	US0386454B2	9/20/2009	2/26/2013
United-States	Systems and methods for providing advanced search result page content	US0386455B2	9/20/2009	2/26/2013
United-States	Semantic and text matching techniques for network search	US0112436B2	9/21/2009	2/7/2012
United-States	System and method for cross-domain learning for data augmentation	US0323234B2	9/24/2009	12/11/2012
United-States	Acquisition of out-of-vocabulary translations by dynamically learning extractions rules	US0670974B2	9/25/2009	3/11/2014
United-States	Apparatus and methods for user-generated translation	US0053202B2	9/25/2009	6/9/2015
United-States	Network-graph evolution rule generation	US0204904B2	9/30/2009	6/19/2012
United-States	Network-graph evolution rule generation	US0489448B2	12/23/2013	11/8/2016
United-States	Network-graph evolution rule generation	US0676840B2	6/6/2012	3/18/2014
United-States	System and method for slow-ad-detection	US0856027B2	10/7/2009	10/7/2014
United-States	Method and system for form-filling and associated rich-keywords	US0793239B2	10/8/2009	7/20/2014
United-States	Methods and systems relating to ranking functions for multiple domains	US10019518B2	10/9/2009	7/10/2018
United-States	Positioning information processing in query processing	US0838576B2	10/12/2009	9/16/2014
United-States	Tutorial systems for code creation and provisioning tracking	US0635584B2	10/13/2009	11/21/2014
United-States	Information recovery in network search using machine-learning	US0886641B2	10/15/2009	11/11/2014
United-States	Method and system for completing an edit area of a web page	US0690769B2	10/16/2009	6/27/2017
United-States	Replacing an audio portion	US0239199B2	10/16/2009	8/7/2012
United-States	Pairwise ranking-based classifier	US0271408B2	10/22/2009	9/18/2012
United-States	Index-based technique friendly CTR prediction and advertisement selection	US0380570B2	10/27/2009	2/19/2013

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United States	System and methods for enabling arbitrary developer-coded consumption of web-based data	US0407230B2	4/29/2010	3/26/2013
United States	System and methods for enabling arbitrary developer-coded consumption of web-based data	US0442970B2	2/5/2013	9/13/2016
United States	System and methods for enabling arbitrary developer-coded consumption of web-based data	US0916355B2	8/10/2016	3/13/2018
United States	Translation model and method for matching reviews to objects	US0972436B2	10/28/2009	3/3/2015
United States	Developer interface and associated methods for system for querying and consuming web-based data	US0621376B2	10/28/2009	12/31/2013
United States	System and methods for web data transformation sourcing	US0521754B2	1/28/2010	8/27/2013
United States	Predicting item-affinities based on item features by regression	US0442920B2	11/5/2009	5/14/2013
United States	System and method for generating an image sprite	US0706661B2	11/10/2009	4/22/2014
United States	Voluntary admission control for traffic yield management	US0174974B2	11/12/2009	5/8/2012
United States	Media identification system for efficient matching of media items having common content	US0110920B2	11/4/2013	8/18/2015
United States	Media identification system for efficient matching of media items having common content	US0594392B2	11/18/2009	11/26/2013
United States	System for integrating content from external corpora into primary search engine results	US0150874B2	11/30/2009	4/3/2012
United States	System and method for automatically building up topic-specific messaging identities	US0129263B2	12/1/2009	9/8/2015
United States	System and method for task management library to execute map-reduce applications in a map-reduce framework	US0619291B2	12/20/2009	4/11/2017
United States	Opinion aggregation system	US0141966B2	12/23/2009	9/22/2015
United States	Search suggestion elusiveness and presentation	US0631004B2	12/28/2009	1/14/2014
United States	Client-side ad caching for lower ad serving latency	US0027100B2	1/5/2010	5/5/2015
United States	Techniques for caching web pages	US0768926B2	1/5/2010	7/1/2014
United States	System and method for optimizing search results ranking through collaborative gaming	US0612442B2	2/14/2012	12/17/2013
United States	System and method for optimizing search results ranking through collaborative gaming	US0140518B2	1/8/2010	3/20/2012
United States	Apparatus and methods for classifying senders of unsolicited bulk emails	US0710750B2	1/12/2010	7/18/2017

US Assets

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Method and apparatus for clustering electronic documents based on structural features and static content features	US0832102B2	1/12/2010	9/9/2014
United States	Locality-sensitive search suggestions	US0734251B2	1/12/2010	8/15/2017
United States	Search engine-recency-using content preview	US0864804B2	10/7/2016	1/9/2018
United States	Search engine-recency-using content preview	US0465879B2	1/14/2010	10/11/2016
United States	System and method for finding unexpected, but relevant content in an information retrieval system	US0204878B2	1/15/2010	6/19/2012
United States	Self-tagging local AD system	US0015595B2	1/20/2010	4/21/2015
United States	Image content based advertisement system	US10043103B2	1/20/2010	8/7/2018
United States	Motion enabled multi-frame challenge response test	US0803034B2	1/27/2010	11/18/2014
United States	Sensitivity estimation of web pages	US0509231B2	1/28/2010	11/19/2013
United States	Producing optimized graphs in online advertising systems	US0896604B2	1/29/2010	11/25/2014
United States	Integrating saved search results	US0356051B2	5/12/2012	1/15/2013
United States	Integrating saved search results	US0209349B2	2/1/2010	6/26/2012
United States	System and method for targeting users for content delivery	US0135643B2	2/3/2010	9/15/2015
United States	System and method for backend advertisement conversion	US089136B2	2/3/2010	4/1/2014
United States	Smart widgets	US0009152B2	2/4/2010	4/14/2015
United States	System and method for exploring new sponsored search listings of uncertain quality	US0558506B2	2/4/2010	1/31/2017
United States	Automatic super-resolution transformation for images	US0406571B2	2/4/2010	3/26/2013
United States	System and method for discovering story trends in real time from user generated content	US0235635B2	4/3/2013	1/12/2016
United States	System and method for discovering story trends in real time from user generated content	US0429170B2	2/5/2010	4/23/2013
United States	Targeting online ads by grouping and mapping user properties	US0423558B2	2/5/2010	4/16/2013
United States	Electronic module with EMI protection	US10010010B2	2/16/2015	6/26/2018
United States	Small table: multitenancy for lots of small tables on a cloud database	US0214355B2	2/9/2010	7/3/2012
United States	System and method for financial analysis and brand index in brand valuation	US0538842B2	2/9/2010	9/17/2013
United States	System and method for presenting geolocated relevance based content	US0417683B2	2/16/2010	4/9/2013

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United-States	System-and-method-for-determining-an-authority-rank-for-real-time searching	US09053083B2	2/16/2010	4/24/2018
United-States	Extraction-of-wide-ranging-rates-and-identification-of-malicious-using wide-ranging	US08034545B2	2/16/2010	1/13/2015
United-States	System-and-method-for-rewarding-a-user-for-sharing-activity-information with-a-third-party	US0612891B2	2/16/2010	12/17/2013
United-States	System-and-method-for-using-topic-messages-to-understand-media relating-to-an-event	US0396874B2	2/17/2010	3/12/2013
United-States	Automated-user-behavior-feedback-system-for-whole-page-search success-optimization	US0832101B2	2/18/2010	9/9/2014
United-States	Media-event-structure-and-context-identification-using-short-messages	US08084095B2	2/22/2010	7/14/2015
United-States	Media-event-structure-and-context-identification-using-short-messages	US071045492	5/29/2015	7/18/2017
United-States	Enhanced-find-in-page-functions-in-a-web-browser	US08043320B2	2/22/2010	5/26/2015
United-States	Boosting-rapling-text-classifiers-by-langauge-adaptation	US0521507B2	2/22/2010	8/27/2013
United-States	Composition-model-for-eloud-hosted-serving-applications	US0229980B2	2/23/2010	1/5/2016
United-States	Systems-and-methods-for-finding-keyword-relationships-using-wisdoms from-multiple-sources	US0214348B2	2/25/2010	7/3/2012
United-States	System-and-method-for-automatic-matching-of-contracts-using-a-fixed-length-predictive-representation	US0229933B2	2/26/2010	7/24/2012
United-States	Mechanism-for-supporting-user-content-feeds	US0554944B2	3/16/2012	10/8/2013
United-States	Mechanism-for-supporting-user-content-feeds	US0156240B2	3/4/2010	4/10/2012
United-States	Intelligent-feature-expansion-of-online-text-ads	US0788342B2	3/4/2010	7/22/2014
United-States	System,-method-and-computer-program-product-for-managing-eaches	US10275347B2	3/8/2010	4/30/2019
United-States	User-specific-feed-recommendations	US0747374B2	7/31/2014	8/29/2017
United-States	Generating-a-user-profile-based-on-self-disclosed-public-status information	US10074094B2	3/9/2010	9/11/2018
United-States	User-specific-feed-recommendations	US0832099B2	3/9/2010	9/9/2014
United-States	Distributed-publish/subscribe-system	US0489674B2	3/11/2010	7/16/2013
United-States	Method,-system,-and/or-apparatuses-for-use-in-searching-for information-using-computer-platforms	US0560536B2	3/11/2010	10/15/2013
United-States	Method-and-system-for-determining-similarity-score	US0620930B2	3/11/2010	12/31/2013

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Maximum likelihood estimation under a covariate-constraint for predictive modeling	US0275656B2	3/11/2010	9/25/2012
United States	Generation of content requests for a content distribution system	US065965B2	3/12/2010	2/24/2015
United States	Targeting content creation requests to content contributors	US0386308B2	3/12/2010	2/26/2013
United States	Emotional web	US0888497B2	3/12/2010	11/18/2014
United States	Emotional mapping	US0442840B2	3/12/2010	5/14/2013
United States	System and method for determining authorship ranking for content providers content	US0666908B2	3/15/2010	3/4/2014
United States	Session based click features for recovery ranking	US0326815B2	3/16/2010	12/4/2012
United States	Session based click features for recovery ranking	US0255390B2	3/16/2010	8/28/2012
United States	Impression based technique for providing a display advertising supply forecast	US0554621B2	3/17/2010	10/8/2013
United States	Customer state based targeting	US1036056B2	3/18/2010	7/23/2019
United States	Encoding and decoding position data	US0507827B1	6/30/2011	11/19/2016
United States	Ranking of search results based on a metadata of data	US0751511B2	3/30/2010	6/10/2014
United States	Clickable terms for contentual advertisement	US0533043B2	3/31/2010	9/10/2013
United States	Fast network based advertisement selection	US0903736B2	4/5/2010	12/2/2014
United States	Click probability with ranking features in sponsored search	US0229786B2	4/6/2010	7/24/2012
United States	Method and system for performing bi-directional search	US10198510B2	4/25/2016	2/5/2019
United States	Method and system for action suggestion using browser history	US0863000B2	4/7/2010	10/14/2014
United States	Method and system for topical browser history	US0135354B2	4/7/2010	9/15/2015
United States	Modeling and scheduling a system in incremental workflow	US0949834B2	4/7/2010	2/3/2015
United States	Large scale concept discovery for webpage augmentation using search engine indexes	US0886623B2	4/7/2010	11/11/2014
United States	Method and system for topic based browsing	US10083248B2	4/7/2010	9/25/2018
United States	Method and system for performing bi-directional search	US0323843B2	4/7/2010	4/26/2016
United States	Method and system for determining relevant text in a web page	US0906614B2	4/7/2010	6/12/2018
United States	Method and system for socializing events	US0659276B2	4/9/2010	5/23/2017
United States	System and method for selecting search results facets	US0152702B2	4/9/2010	10/6/2015

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Improving geographic locations in a search process	US0903837B2	4/13/2010	12/2/2014
United-States	Using external sources for sponsored search AD selection	US0129300B2	4/21/2010	9/8/2015
United-States	Selectively adding social dimension to web searches	US0800520B2	4/21/2010	11/4/2014
United-States	Large-scale entity-specific resource classification	US0317613B2	4/21/2010	4/19/2016
United-States	Online-serving threshold and delivery policy adjustment	US0754266B2	4/21/2010	9/5/2017
United-States	Integrated adaptive URL shortening functionality	US0411900B2	8/28/2012	8/9/2016
United-States	Integrated adaptive URL shortening functionality	US0281232B2	4/22/2010	10/2/2012
United-States	Finding predictive cross-category search queries for behavioral targeting	US090641B2	4/23/2010	6/5/2018
United-States	Methods for web site analysis	US0751632B2	4/29/2010	6/10/2014
United-States	Efficient failure detection for long-running data transfer jobs	US0276022B2	4/30/2010	9/25/2012
United-States	Bid-handseal tool	US1025560B2	5/5/2010	4/9/2019
United-States	Efficient lexical trending topic detection over streams of data using a modified sequential algorithm	US0838590B2	5/14/2010	9/16/2014
United-States	Search results summarized with tokens	US10216834B2	5/19/2010	2/26/2019
United-States	Method and system for providing directions	US0146123B2	5/19/2010	9/20/2015
United-States	Manufacturing method and electronic module with new routing possibilities	US0301394B2	5/19/2010	3/29/2016
United-States	System and method for online handwriting recognition in web queries	US0930360B2	5/28/2010	1/6/2015
United-States	Research mission identification	US0769861B2	5/31/2010	7/11/2014
United-States	System and method for indexing food providers and use of the index in search engines	US0903800B2	6/2/2010	12/2/2014
United-States	Method and system for performing a web search via a client-side module	US0152712B2	6/30/2010	10/6/2015
United-States	Method and system for performing a web search	US0619562B2	6/30/2010	4/11/2017
United-States	Annotating HTML segments with functional labels	US0594730B2	7/11/2010	3/14/2017
United-States	Rule-based, proactive web browsing	US0744990B2	7/9/2010	6/3/2014
United-States	Clustering of search results	US0443008B2	7/14/2010	9/13/2016
United-States	Value-maximizing recommendation systems	US0503502B2	7/16/2010	11/12/2013
United-States	Using linear and log-linear model combinations for estimating probabilities of events	US0484077B2	9/29/2010	7/9/2013

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	Estimating probabilities of events in a processor search using adaptive models	US0302343B2	7/24/2010	3/5/2013
United-States	Electronic module with embedded jumpers and user models	US06735735B2	7/23/2010	5/27/2014
United-States	Electronic module with vertical connector between conductor patterns	US0238113B2	7/23/2010	8/7/2012
United-States	Integrated link statistics within an application	US0386915B2	7/26/2010	2/26/2013
United-States	Deceiving a network user profiles for ad campaign	US0543518B2	7/26/2010	9/24/2013
United-States	System and method for television search assistance	US0477746B2	7/20/2012	10/25/2016
United-States	System and method for television search assistance	US0250077B2	7/28/2010	8/24/2012
United-States	Method or system to predict media content preferences	US0137574B2	7/28/2010	9/15/2015
United-States	Ranking entity facets using user click feedback	US0262532B2	7/30/2010	2/16/2016
United-States	Socializing via search	US0633113B2	8/6/2010	4/25/2017
United-States	Contextual advertising with user features	US0031863B2	8/19/2010	5/12/2015
United-States	Method and system for providing contents based on past queries	US0442987B2	8/19/2010	5/14/2013
United-States	Automatically correcting titles	US0504567B2	8/23/2010	8/6/2013
United-States	Adaptive targeting for finding look alike users	US0087332B2	8/30/2010	7/24/2015
United-States	Multi-step challenge response test	US0528054B2	8/31/2010	9/3/2013
United-States	Content preview generation	US0520156B2	8/31/2010	12/13/2016
United-States	Method for controlling webpage within electronic products and an electronic product	US0420604B2	8/31/2010	8/16/2016
United-States	Quick applications for search	US0615510B2	9/1/2010	12/24/2013
United-States	System and method for monitoring user generated web content	US0423409B2	9/2/2010	4/16/2013
United-States	Building content in Q and A sites by auto posting of questions extracted from web search logs	US0452747B2	9/7/2010	5/28/2013
United-States	Social network based user initiated review and purchase related information and advertising	US0458160B2	9/8/2010	6/4/2013
United-States	Scoring users of network based users	US0712843B2	9/8/2010	4/29/2014
United-States	System and method for obtaining user information	US0843817B2	9/14/2010	9/23/2014
United-States	Determining whether to provide an advertisement to a user of a social network	US0478697B2	9/15/2010	7/2/2013
United-States	Search assist powered by session analysis	US0255414B2	9/15/2010	8/28/2012

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Method and system for generating search URLs	US0902537B2	9/15/2010	7/28/2015
United States	Determining whether to provide an advertisement to a user of a social network	US0805391B2	5/29/2013	10/31/2017
United States	Measuring online ad performance for third-party ad serving	US0536240B2	9/29/2010	1/3/2017
United States	Tracking user query intent classifiers using wildcards and a search click log	US0465864B2	9/29/2010	10/11/2016
United States	Determining placement of advertisements on web pages	US0566160B2	9/30/2010	10/22/2013
United States	System and method for controlling a networked display	US0160810B2	2/11/2015	10/13/2015
United States	System and method for controlling a networked display	US0900702B2	9/30/2010	3/24/2015
United States	Contextual quick picks	US0779168B2	10/4/2010	10/3/2017
United States	Network resource specific search assistance	US10423672B2	10/4/2010	9/24/2019
United States	Contextual quick picks	US10303732B2	7/14/2017	5/28/2019
United States	Method and system for processing and learning rules for extracting information from incoming web pages	US0280528B2	10/4/2010	3/8/2016
United States	Time-tagged challenge response test	US0955044B2	10/4/2010	2/10/2015
United States	Method of content tagging determined by user credibility signals	US0529822B2	10/5/2010	12/27/2016
United States	Multisided audience related hybrid measurements	US0819292B2	9/3/2013	8/26/2014
United States	Multisided audience related hybrid measurements	US0549103B2	10/7/2010	10/1/2013
United States	Multisided audience related search	US0930390B2	10/8/2010	1/6/2015
United States	Topic-oriented diversified item recommendation	US0589378B2	10/11/2010	11/19/2013
United States	System for training classifiers in multiple categories through active learning	US0498950B2	10/15/2010	7/30/2013
United States	Matching items of user generated content to entities	US0412771B2	10/21/2010	4/23/2013
United States	Securing expandable display advertisements in a display advertising environment	US0443257B2	10/21/2010	9/13/2016
United States	User feed data delivery	US0633354B2	10/27/2010	4/25/2017
United States	Measuring the effects of social sharing on online content and advertising	US0324093B2	10/28/2010	4/26/2016
United States	Consumer group buying through online ads	US1028274B2	10/29/2010	5/7/2019
United States	Profile prediction for shared computers	US0536000B2	10/29/2010	1/3/2017
United States	Extracting rich temporal context for business entities and events	US0606564B2	11/1/2010	12/10/2013

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Mobile-based-real-time-food-and-beverage-recommendation-system	US6429027B2	11/09/2010	4/23/2013
United-States	Methods-and-systems-for-pathing-analysis	US6471606B2	11/11/2010	10/18/2016
United-States	Methods-and-systems-for-pathing-analysis	US6940390B2	9/30/2016	4/10/2018
United-States	Online-advertising-with-enhanced-publisher-involvement	US6911135B2	11/15/2010	3/6/2018
United-States	Combination-creative-advertisement-targeting-system	US6510653B2	11/15/2010	8/13/2013
United-States	Bootstrapping-recommendation-system-and-method	US6510248B2	11/18/2010	8/13/2013
United-States	Detecting-counterfeit-events	US6105008B2	11/1/2010	8/11/2015
United-States	Using-clicked-state-driven-click-through-rate-estimates-in-sponsored-search	US6364525B2	11/30/2010	1/29/2013
United-States	Method-and-system-for-discovering-dynamic-relations-among-entities	US6529895B2	10/29/2014	12/27/2016
United-States	Systems-and-methods-for-list-ranking-and-ads-placement-using-interaction-features	US6620744B2	12/30/2010	12/31/2013
United-States	Systems-and-methods-for-list-ranking-and-ads-placement-using-interaction-features	US6189804B2	11/1/2013	11/17/2015
United-States	Clustering-with-similarity-adjacency-centrality	US6266140B2	12/10/2010	9/11/2012
United-States	System-and-method-for-browsing-an-advertisement-to-an-impression-using-a-tagging-dimension-dictionary	US6928523B2	12/10/2010	3/27/2018
United-States	Cross-market-mo-del-adaptation-with-pairwise-preference-data	US6489500B2	12/13/2010	7/16/2013
United-States	Coaching-web-documents-in-two-or-more-epochs	US6849758B2	12/15/2010	9/30/2014
United-States	Intergrated-and-comprehensive-advertising-campaign-management-andoptimization	US6904930B2	12/16/2010	2/27/2018
United-States	Image-object-recognition-based-on-aggregations-of-visual-object-relations	US6527564B2	12/16/2010	9/3/2013
United-States	Display-entity-relationship	US6043360B2	12/17/2010	5/26/2015
United-States	User-of-personalized-points-of-reference-in-selecting-advertisementsshown-to-users	US69972020B2	12/17/2010	5/15/2018
United-States	Method-and-system-for-generating-web-pages-for-topics-unassociatedwith-a-domainnameURL	US6799260B2	12/17/2010	8/5/2014
United-States	Selection-and/or-modification-of-a-portion-of-online-content-based-on-anemotional-state-of-a-user	US10380647B2	10/28/2016	8/13/2019
United-States	Automatic-classification-of-displays-using-ad-images-and-landing-pages	US6732014B2	12/20/2010	5/20/2014
United-States	Selection-and/or-modification-of-an-ad-based-on-an-emotional-state-of-auser	US6514481B2	12/20/2010	12/6/2016

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Blending advertiser data with ad network data in order to serve finely targeted ads	US0536250B2	12/20/2010	11/3/2017
United States	Classification recommendation based on social actions	US0521679B2	12/20/2010	8/27/2013
United States	Scalable push-based architecture for web applications	US0137288B2	12/20/2010	9/15/2015
United States	Techniques for improving relevance of social updates distributed offline	US0213981B2	12/20/2010	12/15/2015
United States	Time-triggered advertisement replacement	US1002610B2	11/13/2014	7/17/2018
United States	Time-triggered advertisement replacement	US0010331B2	12/21/2010	12/23/2014
United States	Method and system for automatic measurement of online advertisement using offline sales	US0935177B2	12/22/2010	11/13/2015
United States	Location-based on-line targeted tweet content associated with a location	US0172666B2	6/10/2013	10/27/2015
United States	Location-aware adaptive event reminder	US0311628B2	12/22/2010	4/12/2016
United States	Location-based on-line targeted tweet content associated with a location	US0478701B2	12/22/2010	7/12/2013
United States	System and method for reducing mineral buildup on drift eliminators of a cooling tower	US0678359B2	12/23/2010	3/25/2014
United States	Systems and methods for providing search assistance technologies based on user self-efficacy and search frequency	US0903845B2	12/23/2010	12/2/2014
United States	Serving reliable content through search	US0601017B2	12/23/2010	12/3/2013
United States	System and method for reducing mineral buildup on drift eliminators of a cooling tower	US039899B2	2/7/2014	5/26/2015
United States	Signal-driven interactive television	US0185458B2	12/23/2010	11/10/2015
United States	Method and system to identify geographical locations associated with queries received at a search engine	US0384289B2	12/23/2010	7/5/2016
United States	System and method for recommending queries related to trending topics based on a received query	US0900241B2	12/23/2010	3/24/2015
United States	System and method for reducing mineral buildup on drift eliminators of a cooling tower	US0038992B2	2/9/2014	5/26/2015
United States	Selecting advertisements for placement on related web pages	US0620745B2	12/27/2010	12/31/2013
United States	Method and system to utilize session queries in real-time to improve precision of sponsored listings	US10192239B2	9/12/2016	11/29/2019
United States	Variation of minimum advertisement relevance quality threshold based on search query attributes	US10275782B2	12/28/2010	4/30/2019

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Computer system for efficient replication of topics of user interest	US0906620B2	12/28/2010	6/12/2018
United States	Method and system to utilize session queues in real time to improve geo precision of sponsored listings	US0443026B2	12/28/2010	9/13/2016
United States	System and method for providing contextual actions on a search results page	US0015140B2	12/30/2010	4/24/2015
United States	Mining global email folders for identifying sub-folders	US0463827B2	1/4/2011	6/11/2013
United States	Inventory allocation for advertisement with changeable supply and demand	US0856028B2	1/24/2011	10/7/2014
United States	System and method for selecting interest-related ads and ranking vendors	US1016077B2	6/3/2013	1/4/2019
United States	Method and system for predictive performance of software applications on prospective hardware architecture	US0208053B2	7/17/2014	12/8/2015
United States	Method and system for predictive performance of software applications on prospective hardware architecture	US0818787B2	1/31/2011	8/26/2014
United States	Techniques including PRL recognition and applications	US0358843B2	1/31/2011	1/22/2013
United States	Techniques including PRL recognition and applications	US0652680B2	5/22/2015	5/16/2017
United States	Techniques including PRL recognition and applications	US070038B2	12/18/2012	6/30/2015
United States	Techniques including PRL recognition and applications	US0904694B2	4/12/2017	4/17/2018
United States	Method and system for data provenance management in multi-layer systems	US0819064B2	2/7/2011	8/26/2014
United States	Audio fingerprint extraction by scaling in time and resampling	US0093120B2	2/10/2011	7/28/2015
United States	Non-textual security using profiles	US0075981B2	2/15/2011	7/7/2015
United States	Optimizing server resources using multiple retry for high traffic websites	US0009253B2	2/16/2011	4/14/2015
United States	Display of content in interaction data in a browser	US0510379B2	2/23/2011	8/13/2013
United States	System for processing complex queries	US0977640B2	2/28/2011	3/10/2015
United States	Augmented content playback triggering advertisement insertion in streaming channels	US0671022B2	3/2/2011	3/11/2014
United States	Search assistant system and method	US0802426B2	11/14/2016	2/13/2018
United States	Search assistant system and method	US0405461B2	3/22/2011	11/15/2016
United States	Method and system for concept summarization	US0870376B2	4/1/2011	1/16/2018
United States	System and method for managing video content or segment networks	US0607267B2	12/20/2013	3/28/2017
United States	System and method for managing social endorsement networks	US0666927B2	4/19/2011	3/4/2014
United States	Collaborative electronic books	US0589804B2	4/22/2011	11/19/2013

US Assets

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Embedding calendar knowledge in event-driven inventory forecasting	US0620720B2	4/20/2011	12/31/2013
United States	System and method for analyzing dynamic performance of complex applications	US0856767B2	4/29/2011	10/7/2014
United States	System and method for contextualizing query instructions using user's recent search history	US0930338B2	5/17/2011	1/6/2015
United States	Method to increase content relevance using insights obtained from user activity updates	US0838564B2	5/19/2011	9/16/2014
United States	Determination and monetization of future location	US0947014B2	7/1/2011	4/17/2018
United States	Inventory estimation for search retargeting	US0880423B2	7/1/2011	11/4/2014
United States	Methods and systems for group targeting for advertisement calendar entries	US0852404B2	7/1/2011	12/26/2017
United States	Method and system for improving relevance of web content	US0909633B2	7/1/2011	12/9/2014
United States	Methods and systems for grabbing video suffers' attention while awaiting download	US0832729B2	7/5/2011	9/9/2014
United States	Combining segments of users into vertically indexed super-segments	US0566156B2	7/5/2011	10/22/2013
United States	High performance personalized advertisement serving by exploiting thread assignments in a multiple core computing environment	US0571924B2	7/5/2011	10/29/2013
United States	Method for summarizing event-related texts to answer search queries	US0020865B2	2/21/2014	4/20/2015
United States	Method for summarizing event-related texts to answer search queries	US0666916B2	7/7/2011	3/4/2014
United States	Real time e-commerce user interface for monitoring and interacting with consumers	US0984338B2	9/7/2011	5/29/2018
United States	Dynamically altered search assistance	US0918389B2	7/13/2011	12/23/2014
United States	Automatic profiling of social media users	US10127522B2	7/14/2011	11/13/2018
United States	System for monitoring a video	US0804690B2	12/9/2015	10/31/2017
United States	System for monitoring a video	US0214135B2	7/18/2011	12/15/2015
United States	Method and system for building an elastic cloud web server farm	US0954568B2	7/21/2011	2/10/2015
United States	Method and system for building an elastic cloud web server farm	US0699250B2	1/12/2015	7/4/2017
United States	Method and system for fast similarity comparison in high dimensional space	US0515964B2	7/25/2011	8/20/2013
United States	System and method for web knowledge extraction	US0918357B2	7/26/2011	12/23/2014
United States	Method and system for automatically identifying optimal meeting locations	US0558457B2	7/26/2011	1/31/2017

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jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	System-and-method-for-optimizing-window-display	US0342208B2	7/27/2011	5/17/2016
United-States	Method-and-system-for-distributed-application-stack-deployment	US0756595B2	7/28/2011	6/17/2014
United-States	Disaggregation-to-isolate-servers-for-ad-targeting	US0646327B2	8/9/2011	5/9/2017
United-States	Multi-step-capcha-with-serial-time-consuming-decryption-of-puzzles	US0522327B2	8/10/2011	8/27/2013
United-States	System-and-method-for-generation-of-a-dynamic-social-page	US0914382B2	10/3/2011	12/16/2014
United-States	System-for-custom-user-generated-achievement-badges-based-on-activity-feeds	US0208470B2	10/4/2011	12/8/2015
United-States	Method,-device,-and-server-for-transmitting-and-reponding-to-a-location-declaration	US0880099B2	10/12/2011	11/14/2014
United-States	Embedding-not-blocking-help-components-in-a-display-page-using-discovery-discover-feature-cues	US0811350B2	10/12/2011	11/7/2017
United-States	Methods-and-systems-for-targeting-user-initiated-social-events	US1024895B2	10/14/2011	4/2/2019
United-States	Method-and-system-for-resolving-data-inconsistency	US0849768B2	10/17/2011	9/30/2014
United-States	Method-and-system-for-work-load-balancing	US0661136B2	10/17/2011	2/25/2014
United-States	Method-and-system-for-dynamic-content-of-a-multip-tier-processoring-system	US0378058B2	2/25/2013	6/28/2016
United-States	Dynamically-updating-camera-on-pool-based-on-user-targeting	US0870552B2	10/19/2011	1/16/2018
United-States	Method-of-traveling-offline-user-interaction-in-a-reduced-delayment-on-a-mobile-device	US0825749B2	10/21/2011	9/2/2014
United-States	Augmented-data-from-multiple-devices-belonging-to-one-user-for-directed-ad-targeting	US0600834B2	10/26/2011	3/21/2017
United-States	Lock-free-transactional-support-for-large-scale-storage-systems	US0946745B2	3/19/2015	4/17/2018
United-States	Lock-free-transactional-support-for-large-scale-storage-systems	US0900177B2	10/27/2011	3/24/2015
United-States	Advertisements-campaigns-within-a-transactional-analytcs	US0754279B2	10/27/2011	9/5/2017
United-States	Methods-and-systems-for-facilitating-eaching-of-advertisements	US0767465B2	10/28/2011	9/19/2017
United-States	Assisted-searching	US0903996B2	10/31/2011	3/17/2015
United-States	Social-sharing-and-influence-graph-system-and-method	US1013404B2	11/9/2011	11/20/2018
United-States	Live-advertisement-preview-display-and-distribution	US0679306B2	11/11/2011	6/13/2017
United-States	Providing-advertisements-in-an-augmented-reality-environment	US0536251B2	11/11/2011	1/3/2017
United-States	System-and-method-for-extracting,-collecting,-enriching-and-ranking-of-email-objects	US0043413B2	11/11/2011	5/26/2015

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Preminum instant messaging space	US0805388B2	11/16/2011	10/31/2017
United States	Related news articles	US0713028B2	11/17/2011	4/29/2014
United States	Method or system for applying in query environments	US0356050B1	11/11/2011	11/15/2013
United States	Automatically arranging of icons on a user interface	US0930839B2	11/12/2011	11/6/2015
United States	Fast maneuvering and high speed data attachments for message services	US0601079B2	11/19/2011	11/3/2013
United States	Results returned for list seeking queries	US0832057B2	11/2/2011	9/9/2014
United States	System and method of matching content items and consumers	US0660975B2	11/27/2011	2/25/2014
United States	Image object retrieval	US0870517B2	11/8/2011	11/16/2018
United States	Method and system for deploying multiple distributed application stacks on a target machine	US0990246B2	11/15/2011	3/24/2015
United States	User customized and addressable complex information needs	US077536B2	11/19/2011	7/8/2014
United States	Interactive interface for object search	US0868558B2	11/19/2011	10/21/2014
United States	Quote-based search	US10230672B2	4/17/2015	3/12/2019
United States	Inserting a search box into a mobile terminal dialog messageing protocol	US052792B2	5/9/2012	6/9/2015
United States	Inserting a search box into a mobile terminal dialog messageing protocol	US0898133B2	11/20/2011	11/12/2014
United States	User behavior driven background cache refreshing	US0210557B2	11/20/2011	11/8/2015
United States	SMS-initiated mobile registration	US0600807B2	6/6/2011	3/11/2017
United States	Server-side modification of messages during a mobile-terminal message exchange	US0158851B2	11/20/2011	10/13/2015
United States	Location aware commenting widget for creation and consumption of relevant comments	US0880390B2	11/20/2011	11/14/2014
United States	Linking news worthy events to published content	US0612812B2	11/21/2011	4/4/2017
United States	Method and system for distributed application stack test certification	US0719285B2	11/22/2011	5/6/2014
United States	System and method for automatic presentation of content related data with content presentation	US0858313B2	11/22/2011	11/2/2018
United States	Method and system for generating query related suggestions	US0135632B2	11/28/2011	9/15/2015
United States	Method and system for ad placement planning	US0965876B2	11/18/2011	2/24/2015
United States	Feed system for manually marked searchable feeds on publisher sites	US10089636B2	11/20/2011	10/2/2018

Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Probe-system-for-replication-monitoring	US0447730B1	1/31/2012	5/21/2013
United-States	Probe-system-for-replication-monitoring	US0886603B2	4/17/2013	11/11/2014
United-States	Automatic-force-distribution-of-images-distributed-in-media-content	US0676814B2	2/16/2012	3/18/2014
United-States	System-for-tracking-diffusion	US10103952B2	4/7/2017	10/16/2018
United-States	System-for-tracking-diffusion	US0100436B2	2/13/2015	8/4/2015
United-States	System-for-tracking-diffusion	US0100286B2	2/13/2015	8/4/2015
United-States	System-for-tracking-diffusion	US0634913B2	6/25/2015	4/25/2017
United-States	System-for-tracking-diffusion	US090341B2	2/29/2012	3/24/2015
United-States	Flexible-tier-data-center	US0696770B2	3/8/2012	7/4/2017
United-States	Publish-subscribe-platform-for-cloud-file-distribution	US0485300B2	3/13/2012	11/14/2016
United-States	Method-and-system-for-edge-server-cache	US0607097B2	3/26/2012	3/28/2017
United-States	Systems-and-methods-to-suggest-travel-itineraries-based-on-user's-current-location	US0818715B2	3/29/2012	8/26/2014
United-States	Finding-environment-media-with-initialized-explore-exploit	US0923621B2	3/29/2012	12/30/2014
United-States	Development-of-platform-independent-applications	US0235398B2	4/2/2012	11/2/2016
United-States	Cross-server-advertising-campaign-security	US0202232B2	4/2/2012	12/14/2015
United-States	Development-and-hosting-for-platform-independent-applications	US0946526B2	4/2/2012	4/17/2018
United-States	Development-of-platform-independent-applications	US0158520B2	7/17/2012	10/13/2015
United-States	Deployment-and-hosting-of-platform-independent-applications	US0268546B2	12/28/2012	2/23/2016
United-States	Deployment-and-hosting-of-platform-independent-applications	US0197720B2	12/19/2012	11/24/2015
United-States	Method-and-system-for-content-search	US0862610B2	4/13/2012	10/14/2014
United-States	Method-and-system-of-dynamic-routing-of-aggregated-online-media streams	US1022550B2	4/16/2012	3/5/2019
United-States	Method-and-system-for-providing-a-predictive-content-to-a-user	US0924790B2	4/16/2012	12/30/2014
United-States	Method-and-system-for-updating-a-background-and-picture-of-a-web-search results-page-for-different-search-queries	US0519661B2	4/17/2012	12/13/2016
United-States	Method-and-system-for-providing-content-based-information-during-video buffering	US0888280B2	4/17/2012	2/6/2018
United-States	Dynamic-webpage-image	US0971740B2	3/12/2016	5/15/2018
United-States	Dynamic-webpage-image	US0317623B2	4/20/2012	4/19/2016

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United-States	Instant search results with page previews	US0370283B2	4/23/2012	6/28/2016
United-States	Snapshot refreshment for search results page preview	US0529926B2	4/23/2012	12/27/2016
United-States	Snapshot generation for search results page preview	US0218410B2	4/23/2012	12/22/2015
United-States	Method and system for distributed machine learning	US0633315B2	4/27/2012	4/25/2017
United-States	User modeling for personalized content recommendations	US0996530B2	4/27/2012	3/31/2015
United-States	Avatars for use with personalized generated content recommendations	US0785883B2	4/27/2012	10/10/2017
United-States	Contentious content identification of broadcast content	US10275578B2	7/10/2017	4/30/2019
United-States	Pricing engine revenue evaluation	US0612274B2	4/30/2012	12/17/2013
United-States	Contentious content identification of broadcast content	US0703932B2	4/30/2012	7/11/2017
United-States	Method and system for automatic detection of eavesdropping of an account based on identifiers and conditions	US0869280B2	5/21/2012	10/21/2014
United-States	Methods and systems for personalizing user experience based on attitude prediction	US0092757B2	5/9/2012	7/28/2015
United-States	Method and system for automatic assignment of identifiers to a graph of entities	US0223861B2	5/10/2012	12/29/2015
United-States	Method and system for real time deduplication of objects in an entity-relationship graph	US0031943B2	5/14/2012	5/12/2015
United-States	Media recommendation using internet media stream modeling	US0582767B2	5/16/2012	2/28/2017
United-States	Context relevant interactive television	US0866915B2	5/18/2012	1/9/2018
United-States	Method and system for email secure identifier	US0856240B2	5/24/2012	10/7/2014
United-States	Automatic tag extraction from video annotated photos	US0768693B2	5/31/2012	7/1/2014
United-States	Personalized content from indexed archives	US0965129B2	6/1/2012	5/8/2018
United-States	Creating a content index using data on user actions	US0792285B2	6/1/2012	10/17/2017
United-States	System and method for discovering photograph hotspots	US0996305B2	6/7/2012	3/31/2015
United-States	Method and system for mining trends around trending terms	US10275525B2	6/14/2012	4/30/2019
United-States	Method and system for displaying comments associated with a query	US0177066B2	6/14/2012	11/3/2015
United-States	System and method for providing sponsored applications in email	US0111291B2	6/19/2012	8/18/2015
United-States	Method and system for detecting users' emotions when experiencing a media program	US0251406B2	6/20/2012	2/2/2016
United-States	Index replication in distributed search engines	US0460226B2	6/28/2012	10/4/2016

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Method and system for recommending websites	US0147000B2	6/29/2012	9/29/2015
United States	Techniques for organizing and presenting deal content	US0384502B2	6/29/2012	7/5/2016
United States	Method or system for semantic categorization	US0305103B2	7/3/2012	4/5/2016
United States	Peer-to-peer architecture for web traffic management	US10057341B2	3/17/2017	8/21/2018
United States	Peer-to-peer architecture for web traffic management	US0621648B2	8/3/2015	4/11/2017
United States	Peer-to-peer architecture for web traffic management	US0100362B2	7/6/2012	8/4/2015
United States	Method and system for visualizing patterns during internet browsing	US0606896B2	7/8/2012	7/4/2017
United States	Response completion in social media	US0380009B2	7/12/2012	6/28/2016
United States	System and method for automatically determining an optimal power exp value	US0015502B2	7/13/2012	4/21/2015
United States	Inventory control rules for inventory management	US0858582B2	7/30/2012	11/2/2018
United States	System and method for identifying abusive account registration	US0862524B2	8/1/2012	10/14/2014
United States	System and method for identifying abusive account registration	US0838403B2	8/4/2014	12/5/2017
United States	Methods and systems for determining the effect of a host on network latency while delivering online ADS	US0667133B2	8/2/2012	3/4/2014
United States	Methods and systems for recommending social network connections	US0117250B2	8/30/2012	8/25/2015
United States	Method and system for reducing network latency	US0363240B2	8/30/2012	6/7/2016
United States	Social content suggestions based on connections	US0367878B2	9/7/2012	6/14/2016
United States	Generating an individualized web page template with entities of a web page publisher organization associated with areas of the template	US0558175B2	9/13/2012	1/31/2017
United States	Multimode distribution systems and methods for providing power from power sources to power consuming devices	US0728960B2	8/28/2015	8/8/2017
United States	Multimode distribution systems and methods for providing power from power sources to power consuming devices	US0136707B2	10/9/2012	9/15/2015
United States	Method and system for customizing a web site	US0268859B2	10/9/2012	2/23/2016
United States	Display of location related promotional message with search query results	US0311655B2	10/12/2012	4/12/2016
United States	Methods and systems for package management	US0202299B2	10/16/2012	3/22/2016
United States	Hybrid applications	US0887182B2	10/16/2012	11/11/2014
United States	Visible personalization	US0903778B2	10/17/2012	12/2/2014
United States	Writing data from hardop to off-grid storage	US0268716B2	10/19/2012	2/23/2016

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Jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United States	Ranking products using purchase-day-based time windows	US0880518B2	10/26/2012	11/4/2014
United States	Systems and methods for implementing bid adjustments in an online advertisement exchange	US10217118B2	10/30/2012	2/26/2019
United States	User displays using N-way programmed merge of information from diverse sources	US0465881B2	10/31/2012	10/11/2016
United States	Method and system for improved language identification using language tags	US0971759B2	2/13/2017	5/15/2018
United States	Method and system for improved language identification using language tags	US0569421B2	10/31/2012	2/14/2017
United States	Social web browsing	US0836178B2	11/3/2012	12/5/2017
United States	Method and system for remote altering static video content in real time	US1014900B2	5/11/2016	12/4/2018
United States	Method and system for remote altering static video content in real time	US0369766B2	11/6/2012	6/14/2016
United States	Navigation bridge	US0135589B2	11/6/2012	9/15/2015
United States	Method and system for work load balancing	US0104497B2	11/7/2012	8/11/2015
United States	Method and system for providing tokenless secure login by visual cryptography	US0984225B2	11/15/2012	5/29/2018
United States	Methods and apparatuses for document processing at distributed processing nodes	US0330181B2	11/26/2012	5/3/2016
United States	Feature-rich view of an entity subgraph	US0754015B2	11/26/2012	9/5/2017
United States	Systems and methods involving features of search and/or search integration	US1038750B2	12/17/2012	8/20/2019
United States	Systems and methods involving search enhancement features associated with media modules	US10303723B2	6/12/2013	5/28/2019
United States	Identity workflow that utilizes multiple storage engines to support various lifecycles	US0367624B2	12/21/2012	6/14/2016
United States	Type-ahead search optimization	US0965909B2	12/24/2012	2/24/2015
United States	User behavior models based on source domain	US0405746B2	12/28/2012	8/23/2016
United States	Systems and methods relating to design of mobile applications for display ads on a larger screen space	US0411435B2	11/7/2013	8/9/2016
United States	Systems and methods relating to design of mobile applications for display ads on a larger screen space	US0504438B2	7/7/2016	3/14/2017
United States	Systems and methods relating to design of mobile applications for display ads on larger screen space	US0753554B2	11/25/2017	9/5/2017

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United-States	Systems and methods relating to ad/content targeting for map route options based on personalization and user data	US10077908B2	4/6/2013	9/18/2018
United-States	System and method for applying an efficient data compression scheme to URL parameters	US9087070B2	4/31/2013	7/21/2015
United-States	System and method for applying an efficient data compression scheme to URL parameters	US9727574B2	7/9/2015	8/8/2017
United-States	Finger-expressions for touch screens	US9760278B2	3/4/2013	9/12/2017
United-States	Video analysis system	US9749710B2	3/4/2013	8/29/2017
United-States	Localized video advertisement wall	US10484755B2	2/27/2018	11/19/2019
United-States	Video advertisement wall	US9369778B2	12/3/2013	6/14/2016
United-States	Localized video advertisement wall	US9930425B2	4/30/2016	3/27/2018
United-States	Automatically fitting a wearable object	US10089680B2	3/12/2013	10/2/2018
United-States	Online advertisement push delivery	US10311474B2	3/15/2013	6/4/2019
United-States	Online digital content real-time update	US10296948B2	3/15/2013	5/21/2019
United-States	Activity initiated virtual machine migration	US10176010B2	8/7/2017	1/8/2019
United-States	Activity initiated virtual machine migration	US9760389B2	3/15/2013	9/12/2017
United-States	Forming regions characterized by labeled measurements	US9058668B2	3/15/2013	6/16/2015
United-States	Social media based content selection system	US9424319B2	3/15/2013	8/23/2016
United-States	Efficient and fault-tolerant distributed algorithm for learning latent factor models through matrix factorization	US9535938B2	3/15/2013	1/3/2017
United-States	Job-based wage	US9311058B2	3/15/2013	4/12/2016
United-States	Identifying regions characterized by labeled measurements	US9589322B2	11/30/2015	3/7/2017
United-States	Identifying regions characterized by labeled measurements	US9235898B2	3/15/2013	1/12/2016
United-States	Method and system for mapping short-term ranking optimization objective to long-term engagement	US9171008B2	3/15/2013	10/27/2015
United-States	Method and system for efficient matching of user profiles with audience segments	US9706088B2	3/15/2013	7/11/2017
United-States	Method and system for data-triggered dynamic log-level control	US9342438B2	3/15/2013	5/17/2016
United-States	Adaptive online large-scale collaborative filtering based recommendation system	US9348924B2	3/15/2013	5/24/2016

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United-States	Qualify-system-for-advertisements-and-content-in-an-online-system	US0460451B2	7/31/2013	10/04/2016
United-States	Interactive-site-map-with-user-foofprints	US0727656B2	7/4/2013	8/8/2017
United-States	Influence-maximization-with-viral-product-design	US1054630B2	13/17/2016	3/28/2020
United-States	Influence-maximization-with-viral-product-design	US0489699B2	7/10/2013	13/18/2016
United-States	Personal-trends-module	US0158850B2	7/24/2013	10/13/2015
United-States	Personal-trends-module	US0990436B2	10/12/2015	6/5/2018
United-States	Multi-finger-user-identification	US0392093B2	7/25/2013	7/12/2016
United-States	Method-and-apparatus-for-secure-localization-of-points-of-interest	US10037327B2	7/8/2016	7/31/2018
United-States	Method-and-apparatus-for-secure-localization-of-points-of-interest using-a-world-shape	US0881075B2	7/24/2014	3/30/2018
United-States	Method-and-apparatus-for-secure-localization-of-points-of-interest	US0390104B2	7/30/2013	7/12/2016
United-States	Methods-and-system-for-device-identification	US032432B2	8/3/2013	5/3/2016
United-States	Encoding-pre-roll-advertisements-in-progressively-loading-images	US0066116B2	8/13/2013	6/23/2015
United-States	Capture-and-retrieval-of-a-personalized-modal-icon	US10289265B2	8/15/2013	5/14/2019
United-States	Testing-computer-implementable-instructions	US0146842B2	8/15/2013	9/29/2015
United-States	Enhancing-network-security	US0197697B2	8/15/2013	11/24/2015
United-States	Method-and-system-for-recommending-relevant-web-content-to-second screen-application-users	US0268861B2	8/19/2013	2/23/2016
United-States	System-and-method-for-automatically-suggesting-diverse-and personalized-messsage-completions	US1003190B2	10/12/2015	7/24/2018
United-States	System-and-method-for-automatically-suggesting-diverse-and personalized-messsage-completions	US0161188B2	8/22/2013	10/13/2015
United-States	System-and-method-for-contentual-social-messsaging	US0191780B2	8/22/2013	13/17/2015
United-States	User-programmable-channel-store-for-video	US1005509B2	12/11/2013	8/21/2018
United-States	Local-recommendation-engine	US0679062B2	9/18/2013	6/13/2017
United-States	Automatic-verification-by-comparing-user-interface-images	US0135151B2	9/18/2013	9/15/2015
United-States	Cache-refreshing-for-online-social-newsfeeds	US0967354B2	9/26/2013	5/8/2018
United-States	Method-and-system-for-controlling-online-user-account-using-a-mobile device	US10164931B2	6/19/2017	12/25/2018

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jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	Method and system for controlling online user account using a mobile device	US9686274B2	9/27/2013	6/20/2017
United-States	Secure physical authentication input with personal display or sound device	US9760696B2	9/27/2013	9/12/2017
United-States	Keyword price recommendation	US9911140B2	10/1/2013	3/6/2018
United-States	Revenue share analysis	US9779422B2	10/1/2013	10/3/2017
United-States	Alternate server reveal for instant privacy	US10007810B2	10/5/2013	6/26/2018
United-States	Cross device information exchange using gestures and locations	US10136289B2	3/17/2017	11/20/2018
United-States	Cross device information exchange using gestures and locations	US9426605B2	10/10/2013	8/23/2016
United-States	Cross device information exchange using gestures and locations	US9602957B2	8/22/2016	3/21/2017
United-States	Masterless echo replication	US9602615B2	10/23/2013	3/21/2017
United-States	Systems and methods for generating a dense graph	US9652875B2	10/28/2013	5/16/2017
United-States	Dynamic database indexes for entity attribute value stores	US10061789B2	10/28/2013	8/28/2018
United-States	Recombination of television content	US9635401B2	10/31/2013	4/25/2017
United-States	Cross platform interface for a television device	US9479832B2	10/31/2013	10/25/2016
United-States	Cross platform interface for a television device	US9654839B2	10/17/2016	5/16/2017
United-States	Audio visual interaction with user devices	US10275022B2	7/24/2018	4/30/2019
United-States	Online marketplace to facilitate the distribution of marketing services from a marketer to an online merchant	US10026113B2	11/12/2013	7/17/2018
United-States	Audio visual interaction with user devices	US10048748B2	11/12/2013	8/14/2018
United-States	User engagement based contextually dependent automated pricing for non-guaranteed delivery	US10134053B2	11/19/2013	11/20/2018
United-States	Method or system for access to shared resource	US10203995B2	11/22/2013	2/12/2019
United-States	Blur aware photo feedback	US9210327B2	12/2/2013	12/8/2015
United-States	Contextual based search suggestion	US9971837B2	12/16/2013	5/15/2018
United-States	Method and system for iterative pipeline	US10326824B2	12/17/2013	6/18/2019
United-States	Query suggestions	US9672288B2	12/30/2013	6/6/2017
United-States	Low key point of interest notification	US9392444B2	12/31/2013	7/12/2016
United-States	Method and system for a scheduled map executor	US9986018B2	1/9/2014	5/29/2018
United-States	Recursive unique user metrics in real time	US9754035B2	2/7/2014	9/5/2017

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United-States	Localized-selectable-location-and/or-time-for-search-queries-and/or search-query-results	US0970425B2	2/27/2014	1/16/2018
United-States	Method-of-querying-singulars	US0608943B2	2/27/2014	3/28/2017
United-States	3-dimensional-object-oriented-reality-maps	US0721389B2	3/3/2014	8/1/2017
United-States	System-and-method-for-email-notification	US10033681B2	3/3/2014	7/14/2018
United-States	Methods-and-systems-for-facilitating-communication-relations-between-providers-of-on-line-services-and-protection-of-users	US0607309B2	3/4/2014	3/28/2017
United-States	Atmospheric-cooling-of-services-in-a-distributed-environment	US0668375B2	3/13/2014	5/30/2017
United-States	System-and-method-for-enhanced-security-encryption-estimation	US10055506B2	3/18/2014	8/11/2018
United-States	Computational-threshold-decomposition	US0460456B2	3/21/2014	10/4/2016
United-States	Method-and-system-for-decomposing-social-relationships-into-domains-of-interactions	US10013480B2	3/26/2014	7/3/2018
United-States	Secure-information-exchange-between-devices-using-location-and-unique-codes	US0794614B2	12/31/2015	10/17/2017
United-States	Secure-information-exchange-between-devices-using-location-and-unique-codes	US0282358B2	4/8/2014	3/8/2016
United-States	Path-related-and-other-techniques-for-use-in-native-advertisement-placement	US10140627B2	4/14/2014	11/27/2018
United-States	Path-related-and-other-techniques-for-use-in-native-advertisement-placement	US10269048B2	12/30/2014	4/23/2019
United-States	Content-guided-techniques-for-use-in-native-advertisement-placement	US10269034B2	4/14/2014	4/23/2019
United-States	Frequency-maps-techniques-for-use-in-native-advertisement-placement	US0361635B2	4/14/2014	6/7/2016
United-States	Frequency-maps-techniques-for-use-in-native-advertisement-placement	US0972034B2	3/23/2017	5/15/2018
United-States	Frequency-maps-techniques-for-use-in-native-advertisement-placement	US0626699B2	5/23/2016	4/18/2017
United-States	Opportunistic-solving-search-uses	US0824149B2	4/23/2014	11/21/2017
United-States	Method-and-system-for-entity-recognition-in-a-query	US0619558B2	4/29/2014	4/11/2017
United-States	Method-and-system-for-providing-query-suggestions-including-entities	US0836554B2	4/30/2014	12/5/2017
United-States	Method-and-system-for-providing-query-suggestions-including-entities	US0830388B2	4/30/2014	11/28/2017
United-States	Method-and-system-for-providing-query-suggestions-including-entities	US0606068B2	4/30/2014	3/21/2017
United-States	Method-and-system-for-user-selection-of-query-suggestions	US0471570B2	4/30/2014	10/18/2016

Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	Internet-based search results organized with a model for search object framework	US0535945B2	4/30/2014	11/3/2017
United States	Method of system for data traffic control and encryption	US10277550B2	5/21/2014	4/30/2019
United States	Synthetic encryption for authentication	US0830556B2	5/21/2014	11/28/2017
United States	System and method for event triggered search results	US075428402	5/22/2014	9/5/2017
United States	Method and system for predictive future email	US10397152B2	5/30/2014	8/27/2019
United States	System and method for advertising using sponsored web browser and contexts	US10152730B2	1/30/2017	12/11/2018
United States	System and method for advertising using sponsored web browser and contexts	US0505048B2	5/30/2014	3/14/2017
United States	Determining traffic quality using event based traffic scoring	US10115125B2	6/3/2014	10/30/2018
United States	Information matching and match validation	US0947060B2	6/3/2014	4/17/2018
United States	Entity recognition using queries	US10289637B2	6/13/2014	5/14/2019
United States	System and method for address based locations	US0661066B2	6/18/2014	5/23/2017
United States	Personalizing query rewrites for ad matching	US10049132B2	6/26/2014	8/14/2018
United States	Recommendation query for authentication	US10223477B2	6/26/2017	3/5/2019
United States	Podcasts in personalized content streams	US0661100B2	6/30/2014	5/23/2017
United States	Recommended query formulation	US0690868B2	6/30/2014	6/27/2017
United States	Method and system for predicting search results quality in vertical ranking	US10146872B2	7/16/2014	12/4/2018
United States	System and method for callibrating bandwidth low energy signal strengths	US0385821B2	7/16/2014	7/5/2016
United States	System and method for detection of indoor tracking units	US0363644B2	8/19/2014	6/7/2016
United States	System and method for detection of indoor tracking units	US0813854B2	3/31/2016	11/7/2017
United States	Rainbow event drop detection system	US10162692B2	7/28/2014	12/25/2018
United States	Expressing statements in messages with personalized expression style	US10116600B2	8/14/2014	10/30/2018
United States	Content suggestions	US0922361B2	8/18/2014	3/30/2018
United States	Method and system for presenting content summary of search results	US0767198B2	8/25/2014	9/19/2017
United States	Emotionally relevant content	US10120946B2	2/17/2017	11/6/2018
United States	Emotionally relevant content	US0613033B2	8/19/2014	4/4/2017
United States	System and method for authenticating across devices	US0843583B2	9/5/2014	12/12/2017

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jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United-States	Systems-and-methods-for-image-optimization	US10157508B2	9/19/2014	12/18/2018
United-States	Graphical-interface-presentation-of-search-results	US10216844B2	9/26/2014	2/26/2019
United-States	Advertisement-opportunity-bidding	US0806705B2	9/26/2014	2/6/2018
United-States	Method-and-system-for-providing-a-synchronization-service	US0754002B2	10/7/2014	9/5/2017
United-States	Character-input-using-modern-remote-control	US0684449B2	10/10/2014	6/20/2017
United-States	Feature-selection	US1023563B2	10/16/2014	3/19/2019
United-States	System-and-methods-for-tracking-brand-reputation-and-market-share	US10354273B2	11/5/2014	7/16/2019
United-States	Geolocation-safety-awareness	US0942332B2	11/12/2014	4/10/2018
United-States	Method-for-ranking-social-and-search-web-traffic-with-virtuality-scores	US10402409B2	12/10/2014	9/3/2019
United-States	User-authentication-and-data-encryption	US10437970B2	10/22/2017	10/8/2019
United-States	User-authentication-and-data-encryption	US0817056B2	12/12/2014	11/14/2017
United-States	Method-for-fabrication-of-an-electronic-module-and-electronic-module	US0909136B2	12/15/2014	6/12/2018
United-States	Enhance-search-object-systems-freshness-by-extending-phrases-from-news-articles	US10242106B2	12/17/2014	3/26/2019
United-States	Routing-control-for-online-ad-campaigns	US10068247B2	12/17/2014	9/4/2018
United-States	Generating-user-recommendations	US0665663B2	12/17/2014	5/30/2017
United-States	Method-and-system-for-providing-a-search-result	US0805097B2	12/17/2014	10/31/2017
United-States	Method-and-system-for-enhanced-search-term-suggestion	US10073884B2	12/18/2014	9/11/2018
United-States	Inferring-user-identity-across-multiple-applications-and-user-devices	US0936044B2	12/18/2014	4/3/2018
United-States	Native-advertisement-targeting	US0734510B2	12/29/2014	8/15/2017
United-States	Method-and-system-for-content-linking	US10289957B2	12/30/2014	5/14/2019
United-States	Method-and-system-for-enhanced-query-term-suggestion	US10210243B2	8/23/2017	2/19/2019
United-States	Controlling-and/or-decontrolling-stored-parameters	US10089318B2	12/30/2014	10/2/2018
United-States	Method-and/or-system-for-walking-route-recommendation	US0803988B2	12/30/2014	10/31/2017
United-States	Method-and-system-for-enhanced-query-term-suggestion	US0767183B2	12/30/2014	9/19/2017
United-States	Method-and/or-apparatus-for-generating-signal-processing-pipelines	US10089081B2	12/31/2014	10/2/2018
United-States	Location-uncertainty-in-search	US0426626B2	12/31/2014	8/23/2016
United-States	Location-uncertainty-in-search	US0749796B2	7/18/2016	8/29/2017
United-States	Providing-interactivity-options-for-television-broadcast-content	US0948997B2	2/25/2015	4/17/2018

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United States	Secure service for receiving information from a mobile device	US0942244B2	12/15/2015	4/10/2018
United States	Secure service for receiving information from a mobile device	US0251372B1	7/8/2015	2/2/2016
United States	Secure interface for a computer display	US0586362S1	3/24/2008	2/10/2009
United States	Secure interface for a computer display	US0586361S1	3/24/2008	2/10/2009
United States	Computer system for a mobile device and a project to adjust the system for a display screen	US09802951	11/29/2007	8/11/2009
United States	Computer system for a display screen	US0624088S1	12/26/2007	9/21/2010
United States	Display panel for a computer system with a graphical user interface	US0677268S1	9/21/2011	3/5/2013
United States	Display panel for a computer system with a graphical user interface	US0678313S1	9/21/2011	3/19/2013

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	SAINT LAWRENCE COMMUNICATIONS LLC			
United States	PERCEPTUAL WEIGHTING DEVICE AND METHOD FOR EFFICIENT CODING OF WIDEBAND SIGNALS	6807524	2001-06-20	2004-10-19
United States	METHOD AND DEVICE FOR ADAPTIVE BANDWIDTH PITCH SEARCH IN CODING WIDEBAND SIGNALS	7260521	1999-10-27	2007-08-21
United States	METHOD AND DEVICE FOR ADAPTIVE BANDWIDTH PITCH SEARCH IN CODING WIDEBAND SIGNALS	7672837	2006-08-04	2010-03-02
United States	METHOD AND DEVICE FOR ADAPTIVE BANDWIDTH PITCH SEARCH IN CODING WIDEBAND SIGNALS	8036885	2009-11-17	2011-10-11
United States	PERIODICITY ENHANCEMENT IN DECODING WIDEBAND SIGNALS	6795805	2001-07-23	2004-09-21
United States	HIGH-FREQUENCY CONTENT RECOVERING METHOD AND DEVICE FOR OVER-SAMPLED SYNTHESIZED WIDEBAND SIGNAL	7151802	2001-07-23	2006-12-19
United States	GAIN-SMOOTHING IN WIDEBAND SPEECH AND AUDIO SIGNAL DECODER	7191123	2000-11-17	2007-03-13
United States	INDEXING PULSE POSITIONS AND SIGNS IN ALGEBRAIC CODEBOOKS FOR CODING OF WIDEBAND SIGNALS	7280959	2003-04-30	2007-10-09
United States	A METHOD AND DEVICE FOR FREQUENCY SELECTIVE PITCH ENHANCEMENT OF SYNTHESIZED SPEECH	7529660	2004-11-23	2009-05-05
United States	A METHOD AND DEVICE FOR MULTI-RATE LATTICE VECTOR QUANTIZATION OF A SIGNAL	7106228	2005-06-06	2006-09-12
United States	METHODS AND DEVICES FOR LOW-FREQUENCY EMPHASIS DURING AUDIO COMPRESSION BASED ON ACELP/TCX	7979271	2005-02-18	2011-07-12
United States	METHODS AND DEVICES FOR SWITCHING BETWEEN SOUND SIGNAL CODING MODES AT A CODER AND FOR PRODUCING TARGET SIGNALS AT A DECODER	7933769	2007-02-15	2011-04-26

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United States	STINGRAY IP SOLUTIONS, LLC			
United States	A-SYSTEM AND METHOD OF INCREASING THE MESSAGE THROUGHPUT IN A-RADIO NETWORK	US6826152B1	9/13/2000	11/30/2004
United States	BROADCAST METHOD IN CHANNEL RESERVATION SYSTEMS AND APPARATUS	US6349210B1	11/3/2000	2/19/2002
United States	METHOD AND APPARATUS FOR COORDINATING CHANNEL ACCESS TO SHARED PARALLEL DATA CHANNELS	US6404756B1	11/3/2000	6/11/2002
United States	Method and apparatus for controlling communication links between network nodes to reduce communication protocol overhead traffic	US6349091B1	11/7/2000	2/19/2002
United States	Method and apparatus for communication network cluster formation and transmission of node link status messages with reduced protocol overhead traffic	US6980537B1	11/13/2000	12/27/2005
United States	Secure wireless LAN device and associated methods	US7440572B2	1/16/2001	10/21/2008
United States	Method and apparatus for on-demand multicast and unicast using controlled flood multicast communication	US7184421B1	12/21/2001	2/27/2007
United States	Method and device for establishing communication links between mobile communication systems	US6904032B2	1/10/2002	6/7/2005
United States	Method and device for establishing communication links and handling unbalanced traffic loads in a communication system	US7304972B2	10/25/2002	12/4/2007
United States	Method and device for establishing communication links and detecting interference between mobile nodes in a communication system	US6901064B2	10/25/2002	5/31/2005
United States	Method and device for establishing communication links and handling SR slot connection collisions in a communication system	US6798761B2	10/25/2002	9/28/2004
United States	Method and device for establishing communication links with parallel scheduling operations in a communication system	US6804208B2	10/25/2002	10/12/2004
United States	Wireless communication system with enhanced time slot allocation and interference avoidance/negotiation features and related methods	US6958986B2	3/27/2003	10/25/2005
United States	WIRELESS COMMUNICATION NETWORK INCLUDING DATA PRIORITIZATION AND PACKET RECEPTION ERROR DETERMINATION FEATURES AND RELATED METHODS	US6982987B2	3/27/2003	1/3/2006
United States	Method and device for establishing communication links and for estimating overall quality of a directional link and reporting to QLSR in a communication system	US7027409B2	3/27/2003	4/11/2006

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United States	Wireless communication network including directional and omnidirectional communication links and related methods	US7333458B2	3/27/2003	2/19/2008
United States	Methods and apparatus for synchronously combining signals from plural transmitters	US7218682B2	2/12/2002	5/15/2007
United States	Hierarchical mobile ad hoc network and methods for performing reactive routing therein using ad hoc on demand distance vector routing (AODV)	US6718394B2	4/29/2002	4/6/2004
United States	Admission control in a mobile ad hoc network	US7007102B2	4/29/2002	2/28/2006
United States	Traffic policing in a mobile ad hoc network	US7068600B2	4/29/2002	6/27/2006
United States	Hierarchical mobile ad hoc network and methods for performing reactive routing therein using dynamic source routing (DSR)	US6870846B2	4/29/2002	3/22/2005
United States	Determining quality of service (QoS) routing for mobile ad hoc networks	US6954435B2	4/29/2002	10/11/2005
United States	Hierarchical mobile ad hoc network and methods for performing reactive routing therein	US7281057B2	4/29/2002	10/9/2007
United States	Hierarchical mobile ad hoc network and methods for route error recovery therein	US6628620B1	4/29/2002	9/30/2003
United States	Allocating channels in a mobile ad hoc network	US7616961B2	4/29/2002	11/10/2009
United States	Temporary transition network protocol (TTNP) in a mobile ad hoc network	US6754192B2	4/29/2002	6/22/2004
United States	Tracking traffic in a mobile ad hoc network	US6578015B2	4/29/2002	11/15/2003
United States	Mobile ad hoc network and methods for performing functions therein based upon weighted quality of service metrics	US7764617B2	6/19/2002	7/27/2010
United States	METHOD AND APPARATUS FOR SECURELY ENABLING A RADIO COMMUNICATION UNIT FROM STANDARD MODE	US7050775B2	7/11/2002	5/23/2006
United States	Mobile ad hoc network including node authentication features and related methods	US7581095B2	7/17/2002	8/25/2009
United States	Multi-channel mobile ad hoc network	US7027426B2	8/5/2002	4/11/2006
United States	Monitoring link quality in a mobile ad hoc network	US6894985B2	8/5/2002	5/17/2005
United States	Multiple path reactive routing in a mobile ad hoc network	US6961310B2	8/8/2002	11/14/2005
United States	Wireless local or metropolitan area network with intrusion detection features and related methods	US7224678B2	8/12/2002	5/29/2007
United States	Mobile ad hoc network with intrusion detection features and related methods	US6986161B2	8/12/2002	11/10/2006

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United States	Mobile ad hoc network with intrusion detection features and related methods	US7082117B2	8/12/2002	7/25/2006
United States	Wireless local or metropolitan area network with intrusion detection features and related methods	US7327690B2	8/12/2002	2/5/2008
United States	Intelligent communication node object based framework in a mobile ad hoc network	US6975614B2	9/4/2002	12/13/2005
United States	Intelligent communication node object based framework including neighbor discovery in a mobile ad hoc network	US6763013B2	9/4/2002	7/13/2004
United States	Intelligent communication node object based framework (IGBF) with temporary transition network protocol (TTNP) in a mobile ad hoc network	US6763014B2	9/24/2002	7/13/2004
United States	Removable cryptographic ignition key system and method	US761994B2	9/30/2002	7/20/2010
United States	System and method for highly accurate real time tracking and location in three dimensions	US6833811B2	10/7/2002	12/11/2004
United States	GPS enabled emergency messaging system	US7650136B2	2/2/2007	1/19/2010
United States	A-GPS-ENABLED-EMERGENCY-MESSAGING-SYSTEM	US7184744B1	10/10/2002	2/27/2007
United States	System and method for link state based proxy flooding of messages in a network	US7242671B2	12/11/2002	7/10/2007
United States	Mobile ad hoc network (MANET) including forward error correction (FEC), interleaving, and multi-route communication features and related methods	US7216282B2	2/19/2003	5/8/2007
United States	Predictive route maintenance in a mobile ad hoc network	US7453864B2	4/30/2003	11/18/2008
United States	Predictive routing including the use of fuzzy logic in a mobile ad hoc network	US7299038B2	4/30/2003	11/20/2007
United States	PREDICTIVE ROUTING IN A MOBILE AD HOC NETWORK	US7382765B2	4/30/2003	6/3/2008
United States	Mobile ad hoc network (MANET) providing quality of service (QoS) based unicast and multicast features	US7394826B2	9/9/2003	7/1/2008
United States	Load leveling in mobile ad hoc networks to support end-to-end delay reduction QoS and energy leveling	US7142866B2	9/9/2003	11/28/2006
United States	Mobile ad hoc network (MANET) providing interference reduction features and related methods	US7068605B2	9/9/2003	6/27/2006
United States	Mobile ad hoc network (MANET) with quality of service (QoS) protocol hierarchy and related methods	US7079552B2	9/9/2003	7/18/2006
United States	Mobile ad hoc network (MANET) providing connectivity enhancement features and related methods	US7085290B2	9/9/2003	8/1/2006

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United States	Method and apparatus for dynamic voice reservation within wireless networks	US7403374B1	10/22/2003	9/5/2006
United States	PREDICTIVE MOBILE AD-HOC NETWORKING INCLUDING ASSOCIATED SYSTEM AND METHODS	US6747940B2	8/24/2012	5/6/2014
United States	Mobile ad hoc network providing expedited conglomerated broadcast message reply features and related methods	US7468954B2	12/14/2004	12/23/2008
United States	METHOD AND APPARATUS FOR DYNAMIC NEIGHBOR DISCOVERY WITHIN WIRELESS NETWORKS USING TIME DIVISION MULTIPLE ACCESS (TDMA)	US7502360B2	3/4/2005	3/10/2009
United States	Mobile ad hoc network (MANET) and method for implementing multiple paths for fault tolerance	US7742399B2	6/22/2006	6/22/2010
United States	TDMA CHANNEL ACCESS SCHEDULING WITH NEIGHBOR INDIRECT ACKNOWLEDGEMENT ALGORITHM (Nbia) FOR ADHOC NETWORKS	US7768992B2	7/6/2006	8/3/2010
United States	System and method for communicating using a plurality of TDMA mesh networks having efficient bandwidth use	US7737357B2	7/24/2006	8/10/2010
United States	System and method for setting a data rate in tdma communications	US6059570B2	7/24/2006	11/15/2011
United States	Method and Apparatus for TimeOfDay Synchronization Between Nodes	US7710944B1	9/15/2006	5/4/2010
United States	Method and System for Efficient Net-Formation and Routing Database Maintenance in a Mobile Adhoc Network	US7787450B1	10/11/2006	8/31/2010
United States	Multilayered configurable data fusion systems and methods for power and bandwidth efficient sensor networks	US9461846B2	11/7/2006	10/4/2016
United States	Systems and methods for automatic proactive pattern recognition at a control-center database	US7656288B2	11/7/2006	2/2/2010
United States	Multipurpose unattended ground sensor node with relay capability	US6454598B2	11/14/2006	4/10/2012
United States	Data-path-dynamic-link-maintenance-in-mobile-ad-hoc-networks	US6654627B2	1/3/2007	2/18/2014
United States	System and method for communicating in a time division multiple access (TDMA) mesh network having minimized end-to-end latency	US7894416B2	1/8/2007	2/22/2011
United States	SYSTEM AND METHOD FOR COMMUNICATING OVER MESH NETWORKS USING WAVEFORM ENHANCED LINK STATE ROUTING	US6213409B2	2/20/2007	7/3/2012
United States	SYSTEM AND METHOD FOR COMMUNICATING OVER MESH NETWORKS USING WAVEFORM ENHANCED LINK STATE ROUTING	US6488589B2	5/30/2012	7/16/2013
United States	USING WAVEFORM ENHANCED LINK STATE ROUTING	US7729321B2	2/21/2007	6/11/2010
United States	Nearby collision-free channel access system and method	US7729321B2	2/21/2007	6/11/2010
United States	Synchronization and timing source priority in an ad hoc network	US7729336B2	3/28/2007	6/11/2010

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United States	TDMA-mobile-ad-hoc-network-(MANET)-with-second-order-timing-and-tracking	US7974402B2	3/20/2007	7/5/2011
United States	Cluster-head-election-in-an-ad-hoc-network	US6134950B2	4/3/2007	3/13/2012
United States	Reliable-broadcast-protocol-and-apparatus-for-sensor-networks	US7916666B2	4/3/2007	3/29/2011
United States	Ad-hoc-network-routing-protocol-including-the-use-of-forward-and-reverse-multi-point-relay-(MPR)-spawning-tree-roots	US7561024B2	4/5/2007	7/14/2009
United States	TDMA-communications-system-with-configuration-biasing-and-associated-method	US6885630B2	6/14/2007	11/11/2014
United States	Adaptive-power-and-data-rate-control-for-ad-hoc-mobile-wireless systems	US7983230B1	7/11/2007	7/19/2011
United States	long-range-scheduling-for-directional-antenna-manet-networks	US785597B2	8/1/2007	12/21/2010
United States	Mobile-ad-hoc-network-providing-desired-link-delay-offset-without-guard-times-and-related-methods	US6155093B2	5/22/2008	4/10/2012
United States	Mobile-ad-hoc-network-providing-communication-latency-reduction features-and-related-methods	US637789B2	5/22/2008	9/17/2013
United States	Asynchronous-dynamic-network-discovery-for-low-power-systems	US7903601B2	11/8/2007	3/8/2011
United States	Promiscuous-monitoring-using-internet-protocol-enabled-devices	US631240B2	11/8/2007	12/11/2012
United States	System-and-method-for-setting-a-data-rate-in-TDMA-communications	US571004B2	9/28/2011	10/29/2013
United States	System-and-method-for-setting-a-data-rate-in-TDMA-communications	US6054810B2	12/6/2007	11/8/2011
United States	Method-and-apparatus-for-carry-warning-of-congestion-in-Ad-hoc wireless networks	US689884B2	4/7/2008	11/3/2012
United States	Mobile-ad-hoc-network-with-isochronous-communications-and-related-methods	US6009648B2	5/8/2008	8/30/2011
United States	Multi-tier-ad-hoc-network-in-which-at-least-two-types-of-non-interfering waveforms-are-communicated-during-a-timeslot	US6325702B2	8/29/2008	12/4/2012
United States	Ad-hoc-network-segustition-using-chaotic-sequence-spread-waveform	US6165065B2	10/9/2008	4/24/2012
United States	Mobile-wireless-communications-device-with-elasticmetric-scaling memberane-coverting-switch-and-related-methods	US6160657B2	7/24/2009	4/17/2012
United States	Network-layer-topology-management-for-mobile-ad-hoc-networks-and-associated-methods	US6547875B2	3/29/2010	10/1/2013
United States	Ad-hoc-wireless-communications-network-with-node-role-information routing-and-associated-methods	US6247482B2	8/3/2011	1/26/2016

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United States	Mobile ad hoc network with dynamic TDMA slot assignments and related methods	US0942197B2	10/24/2011	1/27/2015
United States	Method to bootstrap into a frequency agile ad hoc network of radios that use a non-deterministic frequency pattern	US9066320B2	2/7/2012	6/23/2015
United States	MANET with DNS database resource management and related methods	US9185070B2	5/17/2012	11/10/2015

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	SUPER-INTERCONNECT TECHNOLOGIES LLC			
United States	HIGH DENSITY COLUMN DRIVERS FOR AN ACTIVE MATRIX DISPLAY	6100868	1997-09-15	2000-08-08
United States	CLOCK AND DATA RECOVERY METHOD AND APPARATUS	6693985	2001-10-26	2004-02-17
United States	SYSTEM AND METHOD FOR SENDING AND RECEIVING DATA SIGNALS OVER A CLOCK SIGNAL LINE	6463092	1999-09-09	2002-10-08
United States	SYSTEM AND METHOD FOR CONTROLLING AN ACTIVE MATRIX DISPLAY	6100879	1997-08-11	2000-08-08
United States	POWER SAVING CIRCUIT AND METHOD FOR DRIVING AN ACTIVE MATRIX DISPLAY	6271816	1998-09-04	2001-08-07
United States	CONTROLLABLE DELAYS IN MULTIPLE SYNCHRONIZED SIGNALS FOR REDUCED ELECTROMAGNETIC INTERFERENCE AT PEAK FREQUENCIES	6144242	1998-09-04	2000-11-07
United States	CMOS DRIVER AND ON-CHIP TERMINATION FOR GIGABAUD SPEED DATA COMMUNICATION	6560290	1999-01-20	2003-05-06
United States	SPREAD SPECTRUM PHASE MODULATION FOR SUPPRESSION OF ELECTROMAGNETIC INTERFERENCE IN PARALLEL DATA CHANNELS	6600771	1999-01-20	2003-07-29
United States	FREQUENCY COMPARATOR WITH HYSTERESIS BETWEEN LOCKED AND UNLOCKED CONDITIONS	6859107	2003-01-30	2005-02-22
United States	TRACKED 3X OVERSAMPLING RECEIVER	7203260	2003-07-03	2007-04-10
United States	VOLTAGE CONTROLLED OSCILLATOR	6888417	2003-07-03	2005-05-03
United States	DATA RECOVERY USING DATA EYE TRACKING	7315598	2006-08-02	2008-01-01
United States	METHOD AND APPARATUS FOR DATA RECOVERY IN A DIGITAL DATA STREAM USING DATA EYE TRACKING	7519138	2007-12-20	2009-04-14
United States	CLOCK EDGE MODULATED SERIAL LINK WITH DC BALANCE CONTROL	7627044	2005-10-31	2009-12-01
United States	COMBINING A CLOCK SIGNAL AND A DATA SIGNAL	7158593	2002-03-15	2007-01-02
United States	HIGH SPEED AND HIGH PRECISION PHASE LOCKED LOOP HAVING PHASE DETECTOR WITH DYNAMIC LOGIC STRUCTURE	5815041	1996-04-12	1998-09-29
United States	HIGH SPEED AND HIGH PRECISION PHASE LOCKED LOOP HAVING PHASE DETECTOR WITH DYNAMIC LOGIC STRUCTURE	6157263	1998-06-16	2000-12-05
United States	HIGH SPEED AND HIGH PRECISION PHASE LOCKED LOOP	6462624	2000-10-20	2002-10-08
United States	HIGH SPEED AND HIGH PRECISION PHASE LOCKED LOOP	6030560	2002-06-25	2005-08-16
United States	WIDE RANGE MULTI-PHASE DELAY LOCKED LOOP	6076240	2003-11-25	2005-04-05

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	TELECONFERENCE SYSTEMS, LLC			
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	6080526	2001-03-26	2005-12-27
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	8665759	2005-09-26	2014-03-04
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	9154734	2013-04-18	2015-10-06
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	9253444	2015-03-04	2016-02-02
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	9419939	2015-11-02	2016-08-16
United States	MULTIPLE-SUBSCRIBER-VIDEOCONFERENCEING-SYSTEM	15/207023	2016-07-11	

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UNIFICATION TECHNOLOGIES LLC				
United States	Page buffer for non-volatile semiconductor memory device and method of operation	US7224624	5/20/2005	5/29/2007
United States	Row-decoder-circuit for use in non-volatile memory device	US7286411B2	6/27/2005	10/23/2007
United States	Flash memory and method of fabricating the same	US7348267B2	1/9/2006	3/25/2008
United States	Charge trap type 3-level non-volatile semiconductor memory device and method of driving the same	US7342827B2	1/26/2006	3/11/2008
United States	Redundant key-selector circuit for use in non-volatile memory device	US7315480B2	6/1/2006	1/1/2008
United States	Semiconductor device and method of manufacturing the same	US8012829B2	9/24/2010	9/6/2011
United States	Semiconductor device and method of manufacturing the same	US7626230B2	1/25/2007	12/1/2009
United States	Semiconductor device and method of manufacturing the same	US7825461B2	5/18/2007	11/2/2010
United States	Systems and methods for persister device operation	US8762658	8/3/2012	6/24/2014
United States	Apparatus, system, and method for managing data in a solid state storage device	US8482993	5/1/2012	7/9/2013
United States	Apparatus, system, and method for identifying data that is not being used	US8533406	9/7/2012	9/10/2013
United States	Apparatus, system, and method for managing data using a data pipeline	US8533569	8/30/2012	9/10/2013
United States	Systems and methods for identifying storage resources that are not in use	US1038732B	3/15/2007	8/20/2019
United States	Systems and methods for adaptive data storage	US10216569	10/3/2016	2/26/2019
United States	Apparatus, system, and method for validating that correct data is read from a storage device	US8392798	4/9/2012	3/5/2013
United States	Systems and methods for identifying storage resources that are not in use	US10387327	8/4/2016	8/20/2019
United States	Apparatus, system, and method for biasing data in a solid state storage device	US8189407	12/29/2010	5/29/2012
United States	Systems and methods for adaptive error correction coding	US9116823	3/14/2013	8/25/2015
United States	Systems and methods for adaptive data storage	US9495241	3/4/2013	11/15/2016
United States	Apparatus, system, and method for data block usage information synchronization for a non-volatile storage volume	US10558371	12/12/2014	2/11/2020
United States	Systems and methods for storage space recovery	US10146700	9/15/2016	12/4/2018

jurisdiction	Title	Application No., or Patent No.	Filing Date	Issue Date
United-States	System and method for identifying storage resources that are not in use	US06327237	6/19/2014	4/25/2017
United-States	System and method for storage parallelism	US0454492	12/28/2012	9/27/2016
United-States	Apparatus, system, and method for storage resource recovery after reaching a read-only limit	US0074011	11/18/2008	12/6/2011
United-States	Apparatus, system, and method for data block usage information	US0935302	2/23/2010	1/13/2015
United-States	System and method for secure storage of information	US0151082	4/6/2008	4/3/2012
United-States	Apparatus, system, and method for secure storage of information	US0151082	4/6/2008	4/3/2012
United-States	Apparatus, system, and method for efficient mapping of virtual and physical addresses	US0195912	4/6/2008	6/5/2012
United-States	Apparatus, system, and method for managing data in a storage device with a capacity data token directive	US0261005	12/6/2007	9/4/2012
United-States	Apparatus, system, and method for ensuring data validity in a data storage resource	US0316277	4/5/2008	11/20/2012
United-States	Apparatus, system, and method for validating data received from a read-from-a-data-storage device	US0161353	4/6/2008	4/17/2012
United-States	Apparatus, system, and method for managing data from a requesting device with a capacity data token directive	US0296337	12/6/2007	10/23/2012
United-States	Apparatus, system, and method for storage space recovery in a solid-state storage	US0402201	12/6/2007	3/19/2013
United-States	Apparatus, system, and method for managing data in a solid-state storage	US0266496	12/6/2007	9/11/2012
United-States	Apparatus, system, and method for managing data of solid-state storage using bank interleaving	US0575902	12/6/2007	2/21/2017
United-States	Method of forming a nonvolatile memory device having electrically-shielding source plates	US0404578B2	1/12/2012	3/26/2013
United-States	Nonvolatile memory devices having electrically-shielding source plates	US0116111B2	5/7/2009	2/14/2012
United-States	Apparatus, system, and method for increasing data integrity in a redundant storage system	US0304853	9/8/2014	4/5/2016
United-States	Apparatus, system, and method for increasing data integrity in a redundant storage system	US0684560	4/4/2016	6/20/2017
United-States	Apparatus, system, and method for increasing data integrity in a redundant storage system	US0832528B2	5/18/2010	9/9/2014

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Jurisdiction	Title	Application No. or Patent No.	Filing Date	Issue Date
United States	APPARATUS, SYSTEM, AND METHOD TO INCREASE DATA INTEGRITY IN A REDUNDANT STORAGE SYSTEM	US0281227	5/18/2009	10/2/2012
United States	Three-dimensional semiconductor devices including select gate patterns having different work function from cell gate patterns	US0410834B2	1/4/2010	2/7/2012
United States	Methods of manufacturing charge trap type memory devices	US0097531B2	3/17/2010	1/17/2012
United States	Semiconductor device with a pick-up region	US0111799B2	5/17/2011	8/18/2015
United States	Systems and methods for persistent address space management	US10133663	10/3/2013	11/20/2018
United States	Systems and methods for refreshing data on a storage medium	US10019353	6/24/2013	7/10/2018
United States	Multilevel-cell nonvolatile memory system	US0318216B2	3/13/2013	4/19/2016
United States	Three-dimensional semiconductor devices and methods of fabricating the same	US0019739B2	1/10/2014	4/28/2015
United States	Three-dimensional semiconductor devices and methods of fabricating the same	US0224429B2	3/2/2015	12/29/2015
United States	SYSTEMS AND METHODS FOR ADAPTIVE ERROR CORRECTION CODING	US15253334	8/31/2016	
United States	APPARATUS, SYSTEM, AND METHOD FOR MANAGING COMMANDS OF SOLID-STATE STORAGE USING BANK INTERLEAVE	US15402936	1/10/2017	
United States	APPARATUS, SYSTEM, AND METHOD TO INCREASE DATA INTEGRITY IN A REDUNDANT STORAGE SYSTEM	US15596939	5/16/2017	
United States	Systems and methods for refreshing data on a storage medium	US16030232	7/9/2018	
United States	Systems and methods for Persistent Address Space Management	US16117688	11/1/2018	
United States	SYSTEMS AND METHODS FOR STORAGE PARALLELISM	US16204947	11/29/2018	
United States	Systems and methods for Adaptive Data Storage	US16245233	1/11/2019	
United States	Systems and methods for identifying storage resources that are not in use	US16543464	8/16/2019	
United States	[No Title]	US16752458	1/24/2020	