

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7327621

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
OT PATENT ESCROW, LLC	05/04/2022
RECEIVING PARTY DATA	
Name:	VALTRUS INNOVATIONS LIMITED
Street Address:	THE GLASS HOUSES
Internal Address:	92 GEORGES STREET LOWER, DUN LAOGHAIRE
City:	DUBLIN
State/Country:	IRELAND
Postal Code:	A96 VR66
PROPERTY NUMBERS Total: 184	
Property Type	Number
Patent Number:	10061139
Patent Number:	6665543
Patent Number:	6708515
Patent Number:	6796506
Patent Number:	6820146
Patent Number:	6851064
Patent Number:	6856926
Patent Number:	6857047
Patent Number:	6858162
Patent Number:	6862691
Patent Number:	6868899
Patent Number:	6870436
Patent Number:	6873270
Patent Number:	6874050
Patent Number:	6874103
Patent Number:	6879487
Patent Number:	6880146
Patent Number:	6883091
Patent Number:	6883109

PATENT

Property Type	Number
Patent Number:	6886117
Patent Number:	6889345
Patent Number:	6889349
Patent Number:	6895460
Patent Number:	6896541
Patent Number:	6898098
Patent Number:	6901303
Patent Number:	6901458
Patent Number:	6907314
Patent Number:	6907519
Patent Number:	6909570
Patent Number:	6909577
Patent Number:	6910155
Patent Number:	6912599
Patent Number:	6918027
Patent Number:	6920492
Patent Number:	6922496
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Patent Number:	6976073
Patent Number:	6976119
Patent Number:	6980884
Patent Number:	6981104
Patent Number:	6982570
Patent Number:	7002932
Patent Number:	7028106
Patent Number:	7028177
Patent Number:	7045996
Patent Number:	7046587
Patent Number:	7047462
Patent Number:	7062672
Patent Number:	7062702
Patent Number:	7076539
Patent Number:	7093043
Patent Number:	7093278
Patent Number:	7100273

Property Type	Number
Patent Number:	7111157
Patent Number:	7124324
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Patent Number:	7546475
Patent Number:	7555644
Patent Number:	7555751

Property Type	Number
Patent Number:	7581242
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Patent Number:	7983163
Patent Number:	7984150
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Patent Number:	8254996
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Patent Number:	8368118

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Patent Number:	8370688
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Patent Number:	8392546
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Patent Number:	8924667
Patent Number:	8929741
Patent Number:	8930010
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Patent Number:	9036618
Patent Number:	9052475
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Patent Number:	9246774

Property Type	Number
Patent Number:	9311319
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Patent Number:	9372522
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Patent Number:	9401635
Patent Number:	9413358
Patent Number:	9413623
Patent Number:	9479464
Patent Number:	9494419
Patent Number:	9520946
Patent Number:	9715431
Patent Number:	9991676

CORRESPONDENCE DATA

Fax Number: (908)320-4441

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.

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Email: pto@bciplaw.com

Correspondent Name: BOTOS CHURCHILL IP LAW LLP

Address Line 1: 430 MOUNTAIN AVENUE, SUITE 401

Address Line 4: NEW PROVIDENCE, NEW JERSEY 07974

ATTORNEY DOCKET NUMBER:	KEYPAT 9.0-001
NAME OF SUBMITTER:	WENDY PERRAULT
SIGNATURE:	/Wendy Perrault/
DATE SIGNED:	05/12/2022

Total Attachments: 28

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Assignment of Patent Rights

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, OT Patent Escrow, LLC ("*Assignor*"), hereby grants and assigns to Valtrus Innovations Limited ("*Assignee*") all of Assignor's right, title and interest in and to the United States Letters Patents identified in the attached Exhibit A-2 (collectively, "*Assigned Patents*"), to have and to hold the same, for Assignee's own use and enjoyment and for the use and enjoyment of its successors and assigns, and the right to sue for damages for infringement of such Assigned Patents accruing at any time prior to, on, and/or after the date hereof, for the full term or terms of all such Assigned Patents, subject to all rights granted under the Assigned Patents to any and all parties (including Assignor) prior to or concurrent with May 4, 2022.

IN WITNESS WHEREOF, the Assignor executed this Assignment of Patent Rights by their duly authorized representatives as of the Effective Date as set forth below:

OT Patent Escrow, LLC

By:

Name: Joel E. Lutzker

Title: General Counsel

Date: May 4, 2022

Valtrus Innovations Limited

By:

Name: ANGELA QUINLAN

Title: MANAGING DIRECTOR

Date: May 9, 2022

Tranche 7:

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
81974582	F10003624	US	US6862691	Granted		19-Sep-2001	N/A	N/A	REDUNDANT COMPONENT SYSTEM AND METHOD FOR FACILITATING ENDSYSTEM FUNCTIONALITY
81984005	F10007132	US	US6954928	Granted		8-Aug-2001	N/A	N/A	METHOD FOR SELECTING A SET OF PATCHES TO UPDATE A SYSTEM OF PROGRAMS
81986741	F10008034	US	US6708515	Granted		31-Aug-2001	N/A	N/A	PASSIVE SPRAY COOLANT PUMP
81986753	F10008038	US	US6886117	Granted		20-Nov-2001	N/A	N/A	FIELD REPAIRABLE EMBEDDED MEMORY IN SYSTEM-ON-A-CHIP
81986756	F10008039	US	US6910155	Granted		25-Jun-2001	N/A	N/A	SYSTEM AND METHOD FOR CHIP TESTING
81988508	F10010393	US	US6964035	Granted		3-Jul-2001	N/A	N/A	DEBUGGING AN OPERATING SYSTEM KERNEL WITH DEBUGGER SUPPORT IN A NETWORK INTERFACE CARD
81988553	F10010441	US	US6981104	Granted		12-Jul-2002	N/A	N/A	METHOD FOR CONDUCTING CHECKPOINTING WITHIN A WRITEBACK CACHE
81989051	F10010651	US	US6883091	Granted		30-May-2001	N/A	N/A	REDUCING BOOT TIMES VIA INTRUSION MONITORING

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
83087160	F100110476	US	US9033458	Granted		7-Aug-2012	N/A	N/A	SYSTEM AND METHOD FOR PROFILING CLIENTS WITHIN A SYSTEM FOR HARVESTING COMMUNITY KNOWLEDGE
81990020	F10011053	US	US7076539	Granted		30-Jul-2001	N/A	N/A	NETWORK CONNECTIVITY ESTABLISHMENT AT USER LOG-IN
81991103	F10011520	US	US6976073	Granted		29-Nov-2001	N/A	N/A	TRANSPARENT REMOTE DATA STORAGE DEVICE AND METHOD
81991115	F10011521	US	US6907519	Granted		19-Mar-2002	N/A	N/A	SYSTEMS AND METHODS FOR INTEGRATING EMULATED AND NATIVE CODE
81993140	F10012290	US	US6874050	Granted		16-Jan-2002	N/A	N/A	CIRCUIT AND METHOD FOR EXPANDING A SERIAL BUS
81994784	F10012965	US	US7046587	Granted		23-Aug-2001	N/A	N/A	SYSTEMS AND METHODS FOR PROVIDING AUTOMATIC ACCESS TO DATA MEDIA IN A DATA STORAGE SYSTEM
81994793	F10012965	DE	DE60220350.3	Granted		22-Aug-2002	22-Aug-2020	2,108.66	SYSTEMS AND METHODS FOR PROVIDING AUTOMATIC ACCESS TO DATA MEDIA IN A DATA STORAGE SYSTEM

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
81994799	F10012965	GB	GB1288937	Granted		22-Aug-2002	22-Aug-2020	826.86	SYSTEMS AND METHODS FOR PROVIDING AUTOMATIC ACCESS TO DATA MEDIA IN A DATA STORAGE SYSTEM
81995162	F10013118	US	US6901303	Granted		31-Jul-2001	N/A	N/A	METHOD AND APPARATUS FOR CONTROLLING FANS AND POWER SUPPLIES TO PROVIDE ACCELERATED RUN-IN TESTING
81996422	F10013826	US	US6889349	Granted		23-Aug-2001	N/A	N/A	DIGITAL EVENT SAMPLING CIRCUIT AND METHOD
81996431	F10013830	US	US6851064	Granted		22-Aug-2001	N/A	N/A	FINE-GRAINED THERMAL CONTROL IN MEMORY SUBSYSTEMS
82000199	F10016250	US	US6918027	Granted		30-Jul-2001	N/A	N/A	SYSTEM AND METHOD FOR IN-SYSTEM PROGRAMMING THROUGH AN ON-SYSTEM JTAG
82002023	F10017351	US	US6857047	Granted		10-Jun-2002	N/A	N/A	MEMORY COMPRESSION FOR COMPUTER SYSTEMS
82002458	F10017545	US	US7318120	Granted		24-Dec-2004	N/A	N/A	HARDWARE ASSISTED COMMUNICATION BETWEEN PROCESSORS
82002905	F10017839	US	US6909577	Granted		7-Jun-2002	N/A	N/A	LOW-OVERHEAD STORAGE MAGAZINE

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82002914	F10017840	US	US6883109	Granted		30-Jul-2001	N/A	N/A	METHOD FOR ACCESSING SCAN CHAINS AND UPDATING EEPROM-RESIDENT FPGA CODE THROUGH A SYSTEM MANGEMENT PROCESSOR AND JTAG BUS
82003640	F10018117	US	US7480813	Granted		10-Jun-2005	N/A	N/A	CONTROLLER COMMUNICATIONS OVER AN ALWAYS-ON CONTROLLER INTERCONNECT
82004525	F10018651	US	US7340749	Granted		3-Dec-2002	N/A	N/A	METHOD AND APPARATUS TO DETECT PRESENCE OF OR A SIZE OF A DATA CARTRIDGE
82004534	F10018651	DE	DE60307027.2	Granted		21-Nov-2003	21-Nov-2020	2,039.61	MEDIA-DETECTION SYSTEMS
82004993	F10019017	US	US6980884	Granted		16-Jul-2002	N/A	N/A	INTRUSION MONITORS FOR MEDIA STORAGE SYSTEMS
82005002	F10019017	DE	DE60332514.9	Granted		11-Jul-2003	11-Jul-2021	2,272.89	INTRUSION MONITORS FOR MEDIA STORAGE SYSTEMS
82005005	F10019017	FR	FR1383121	Granted		11-Jul-2003	11-Jul-2021	946.25	INTRUSION MONITORS FOR MEDIA STORAGE SYSTEMS
82005008	F10019017	GB	GB1383121	Granted		11-Jul-2003	11-Jul-2021	837.70	INTRUSION MONITORS FOR MEDIA STORAGE SYSTEMS
82086674	F10019724	US	US7263192	Granted		20-Mar-2002	N/A	N/A	ESTABLISHING AN ENCRYPTED SESSION

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
82006889	F10019840	US	US6909370	Granted		25-Nov-2002	N/A	N/A	HARD DISK DRIVE STORAGE SYSTEM
82006910	F10019832	US	US7256435	Granted		2-Jun-2003	N/A	N/A	MULTILEVEL IMPRINT LITHOGRAPHY
82082915	F100200135	US	US7529966	Granted		20-Aug-2004	5-Nov-2020	7,406.00	STORAGE SYSTEM WITH JOURNALING
82084247	F100200743	US	US6858162	Granted		1-Apr-2002	N/A	N/A	SINGLE MOLECULE REALIZATION OF THE SWITCH AND DIODE COMBINATION
82085375	F100201208	US	US7219230	Granted		8-May-2002	N/A	N/A	OPTIMIZING COSTS ASSOCIATED WITH MANAGING ENCRYPTED DATA
82085789	F100201450	GB	GB2391582	Granted		10-Jun-2003	10-Jun-2021	837.70	FAN-SECURING DEVICE FOR USE WITH A HEAT TRANSFER DEVICE
82085792	F100201450	US	US6879487	Granted		30-Sep-2003	N/A	N/A	FAN-SECURING DEVICE FOR USE WITH A HEAT TRANSFER DEVICE
82087094	F100201843	US	US6976119	Granted		14-Jun-2002	N/A	N/A	METHOD AND SYSTEM FOR PROVIDING A LOCATION OF A DATA INTERFACE
82087100	F100201843	GB	GB2393291	Granted		4-Jun-2003	4-Jun-2021	837.70	METHOD AND SYSTEM FOR PROVIDING A LOCATION OF A DATA INTERFACE
82087247	F100201886	US	US6907314	Granted		16-Sep-2003	N/A	N/A	INVENTORY CONTROL DEVICE

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
82088090	F100202247	US	US7334978	Granted		23-Jun-2003	N/A	N/A	CARTRIDGE-HANDLING APPARATUS FOR A MEDIA STORAGE SYSTEM
82088099	F100202247	DE	DE60326440.9	Granted		29-Dec-2003	29-Dec-2021	2,272.89	CARTRIDGE-HANDLING APPARATUS FOR A MEDIA STORAGE SYSTEM
82088105	F100202247	GB	GB1492104	Granted		29-Dec-2003	29-Dec-2020	753.48	CARTRIDGE-HANDLING APPARATUS FOR A MEDIA STORAGE SYSTEM
82090061	F100203351	US	US7886430	Granted		13-Dec-2002	15-Aug-2022	7,406.00	METHOD OF INSTALLING CIRCUIT BOARD COMPONENT
82090346	F100203591	US	US7188171	Granted		23-Jan-2003	N/A	N/A	METHOD AND APPARATUS FOR SOFTWARE AND HARDWARE EVENT MONITORING AND REPAIR
82091372	F100204291	US	US6896541	Granted		18-Feb-2003	N/A	N/A	INTERFACE CONNECTOR THAT ENABLES DETECTION OF CABLE CONNECTION
82091852	F100204836	US	US6895460	Granted		19-Jul-2002	N/A	N/A	SYNCHRONIZATION OF ASYNCHRONOUS EMULATED INTERRUPTS
82578862	F109	US	US7502903	Granted		7-Nov-2005	N/A	N/A	METHOD AND APPARATUS FOR MANAGING DATA STORAGE SYSTEMS

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
82578875	F109	US	US7444489	Granted		7-Nov-2005	N/A	N/A	APPLICATIONS FOR NON-DISRUPTIVELY MOVING DATA BETWEEN LOGICAL DISK REGIONS IN A DATA STORAGE SYSTEM
82031388	F10971442	US	US7062702	Granted		14-Mar-2001	N/A	N/A	EFFICIENT PARITY OPERATIONS
82578819	F12535	US	US7093278	Granted		8-May-2002	N/A	N/A	REMOTE CONSOLE FOR MONITOR AND CONTROL OF SYSTEM FIRMWARE
82578822	F12537	US	US7111157	Granted		8-May-2002	N/A	N/A	SPURIOUS INPUT DETECTION FOR FIRMWARE
82578829	F12540	US	US7124324	Granted		22-Aug-2002	N/A	N/A	METHOD OF TESTING FIBRE CHANNEL PORTS IN A STORAGE SERVER AT FULL BANDWIDTH WITHOUT CONNECTION TO EXTERNAL DEVICES
82093328	F200205608	US	US7469570	Granted		23-Dec-2002	N/A	N/A	ENABLING MULTIPLE TESTING DEVICES
82094180	F200206068	US	US6880146	Granted		31-Jan-2003	N/A	N/A	MOLECULAR-WIRE-BASED RESTORATIVE MULTIPLEXER, AND METHOD FOR CONSTRUCTING A MULTIPLEXER BASED ON A CONFIGURABLE, MOLECULAR-JUNCTION-NANOWIRE CROSSBAR

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82094192	F200206073	US	US6898098	Granted		31-Jan-2003	N/A	N/A	MOLECULAR-JUNCTION-NANOWIRE-CROSSBAR-BASED ASSOCIATIVE ARRAY
82094783	F200206363	US	US6856026	Granted		3-Mar-2003	N/A	N/A	FREQUENCY MARGIN TESTING OF BLADED SERVERS
82095791	F200206843	US	US6820146	Granted		1-Oct-2002	N/A	N/A	FILTER DRIVER FOR BLOCKING ACCESS BY HOST TO DEVICES
82097240	F200207344	US	US7493450	Granted		14-Apr-2003	N/A	N/A	METHOD OF TRIGGERING READ CACHE PRE-FETCH TO INCREASE HOST READ THROUGHPUT
82097885	F200207703	US	US7228345	Granted		15-Oct-2002	N/A	N/A	SERVER WITH LAN SWITCH THAT CONNECTS PORTS BASED ON BOOT PROGRESS INFORMATION
82098389	F200207865	US	US7100273	Granted		3-Mar-2003	N/A	N/A	INTERCONNECT VALIDATION INSTRUMENTS
82099109	F200208131	US	US7873723	Granted		30-Jan-2003	18-Jul-2022	7,706.00	DEVICE DATA
82220018	F200208131	US	US7686229	Granted		27-Mar-2006	30-Sep-2021	7,706.00	RFID READER DEVICE HAVING CLOSELY PACKED ANTENNAS
82220252	F200208131	US	US7806333	Granted		18-Oct-2006	5-Apr-2022	7,706.00	TRACKING RFID TAGS WITH OVERLAPPING ANTENNAS

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82099112	F200208132	US	US6796506	Granted		10-Mar-2003	N/A	N/A	TRACKING ELECTRONIC DEVICES
82099676	F200208397	US	US7546475	Granted		13-May-2003	N/A	N/A	POWER-AWARE ADAPTATION IN A DATA CENTER
82099691	F200208401	US	US7045996	Granted		30-Jan-2003	N/A	N/A	POSITION DETERMINATION BASED ON PHASE DIFFERENCE
82103501	F200209613	US	US7590909	Granted		24-Aug-2005	15-Mar-2021	7,406.00	IN-CIRCUIT TESTING SYSTEM AND METHOD
82103666	F200209639	US	US7145775	Granted		30-Jul-2004	N/A	N/A	CHASSIS CONDUCTED COOLING THERMAL DISSIPATION APPARATUS FOR SERVERS
82103681	F200209643	US	US8621304	Granted		7-Oct-2004	30-Jun-2021	3,606.00	BUILT-IN-SELF-TEST SYSTEM AND METHOD FOR AN INTEGRATED CIRCUIT
82105283	F200300640	US	US6868899	Granted		25-Aug-2003	N/A	N/A	VARIABLE HEIGHT THERMAL INTERFACE
82105697	F200300182	US	US6982570	Granted		30-Oct-2003	N/A	N/A	RECONFIGURABLE DEVICE
82117616	F200301772	US	US6874103	Granted		13-Nov-2001	N/A	N/A	ADAPTER-BASED RECOVERY SERVER OPTION
82118564	F200302016	US	US7284067	Granted		20-Feb-2002	N/A	N/A	METHOD FOR INTEGRATED LOAD BALANCING AMONG PEER SERVERS

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82119695	F200302139	US	US8370468	Granted		8-Nov-2006	3-Aug-2024	7,706.00	METHOD AND APPARATUS FOR CREATING A SECURE EMBEDDED I/O PROCESSOR FOR A REMOTE SERVER MANAGEMENT CONTROLLER
82119701	F200302141	US	US7047462	Granted		4-Jan-2002	N/A	N/A	METHOD AND APPARATUS FOR PROVIDING ITAG FUNCTIONALITY IN A REMOTE SERVER MANAGEMENT CONTROLLER
82119902	F200302189	US	US6912599	Granted		19-Oct-2001	N/A	N/A	METHOD AND APPARATUS FOR SENSING POSITIONS OF DEVICE ENCLOSURES WITHIN MULTI-SHELF CABINETS
82119950	F200302202	US	US6889345	Granted		19-Oct-2001	N/A	N/A	SYSTEM AND METHOD FOR LOCATING A FAILED STORAGE DEVICE IN A DATA STORAGE SYSTEM
82120214	F200302270	US	US6870436	Granted		11-Mar-2002	N/A	N/A	METHOD AND APPARATUS TO ATTENUATE POWER PLANE NOISE ON A PRINTED CIRCUIT BOARD USING HIGH ESR CAPACITORS
82120691	F200302389	US	US7028177	Granted		31-Jan-2002	N/A	N/A	ARRAY CONTROLLER ROM CLONING IN REDUNDANT CONTROLLERS

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
82120694	F200302390	US	US7093043	Granted		27-Dec-2001	N/A	N/A	DATA ARRAY HAVING REDUNDANCY MESSAGING BETWEEN ARRAY CONTROLLERS OVER THE HOST BUS
82121663	F200302325	US	US6991458	Granted		11-Jul-2002	N/A	N/A	MULTI-MODE SCSI BACKPLANE AND DETECTION LOGIC
82168088	F200308692	US	US6922496	Granted		31-Jan-2003	N/A	N/A	INTEGRATED VCSELS ON ASIC MODULE USING FLEXIBLE ELECTRICAL CONNECTIONS
82168127	F200308692	US	US6975514	Granted		31-Jan-2003	N/A	N/A	INTEGRATED VCSELS ON TRADITIONAL VLSI PACKAGING
82168292	F200308761	US	US7028106	Granted		5-Dec-2003	N/A	N/A	REMAPPING ROUTING INFORMATION ENTRIES IN AN EXPANDER
82171157	F200309939	US	US8023828	Granted		17-Oct-2005	20-Mar-2023	7,706.00	QUANTUM INFORMATION CONVERSION BETWEEN MATTER AND LIGHT REPRESENTATIONS
82171166	F200309939	JP	JP5417634	Granted		21-Jul-2006	26-Dec-2020	467.95	QUANTUM INFORMATION CONVERSION BETWEEN MATTER AND LIGHT REPRESENTATIONS

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82171169	F200309939	CN	CN200680038674.4	Granted		21-Jul-2006	21-Jul-2020	959.27	QUANTUM INFORMATION CONVERSION BETWEEN MATTER AND LIGHT REPRESENTATIONS
82174472	F200311229	US	US7930839	Granted		3-Aug-2004	19-Oct-2022	7,706.00	COMPUTER SYSTEM RESOURCE ACCESS CONTROL
82179221	F200313243	US	US8028174	Granted		4-May-2005	27-Mar-2023	7,706.00	CONTROLLING UPDATE OF CONTENT OF A PROGRAMMABLE READ-ONLY MEMORY
82179365	F200313243	US	US7296146	Granted		12-Jan-2004	N/A	N/A	SECURITY MEASURES IN A PARTITIONABLE COMPUTING SYSTEM
82179897	F200313535	US	US7484065	Granted		20-Apr-2004	N/A	N/A	SELECTIVE MEMORY ALLOCATION
82203497	F200313719	US	US7307732	Granted		31-May-2005	N/A	N/A	PHOTONIC CRYSTAL INTERFEROMETER
82180394	F200313719	US	US7492979	Granted		27-Sep-2004	17-Aug-2020	7,406.00	PHOTONIC CRYSTAL LASER SENSORS AND METHODS
82187561	F200400223	US	US7519973	Granted		29-Sep-2004	N/A	N/A	PROVIDING UNIQUE EVENT NOTIFICATION TO ENABLE FIRMWARE TO REQUEST THAT AN OPERATING SYSTEM PERFORM A UNIQUE ACTION

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82187903	F200400362	US	US7386537	Granted		23-Jul-2004	N/A	N/A	METHOD AND SYSTEM FOR DETERMINING SIZE OF A DATA CENTER
82188296	F200400516	US	US7610526	Granted		24-Jan-2005	27-Apr-2021	7,706.00	ON-CHIP CIRCUITRY FOR BUS VALIDATION
82189034	F200400854	US	US7607123	Granted		21-Sep-2004	20-Apr-2021	7,706.00	SYSTEMS AND METHODS FOR VALIDATING DEBUG INFORMATION FOR OPTIMIZED CODE
82192358	F200402482	US	US8375114	Granted		9-Apr-2004	12-Aug-2024	7,706.00	DEVICE LOADING IN STORAGE NETWORKS
82192430	F200402517	US	US7633928	Granted		27-Mar-2005	15-Jun-2021	7,706.00	COMMUNICATION DATA METHOD AND SYSTEM FOR VOICE APPLICATIONS EXECUTABLE BY USER EQUIPMENT.
82193402	F200402838	US	US8694423	Granted		21-May-2004	8-Oct-2021	3,606.00	SYSTEMS AND METHODS FOR BROKERING DATA IN A TRANSACTIONAL GATEWAY
82193606	F200402914	US	US7447889	Granted		20-Apr-2005	N/A	N/A	METHOD AND APPARATUS FOR CONFIGURING A COMPUTER SYSTEM UTILIZING A READ ONLY MEMORY STORING AN OPTION FILE CONTAINING SELECTABLE CONFIGURATION OPTIONS AND A SCRIPT FILE

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82194782	F200403286	US	US8659539	Granted		29-Dec-2004	15-May-2023	7,706.00	LINK THROUGHPUT ENHANCER
82198589	F200405003	US	US7555644	Granted		21-Jul-2006	30-Dec-2020	7,406.00	SYSTEM AND METHOD FOR OPERATING SYSTEM IMAGE PROVISIONING IN A UTILITY COMPUTING ENVIRONMENT
82199369	F200403154	US	US7581242	Granted		30-Apr-2005	25-Feb-2021	7,706.00	AUTHENTICATING PRODUCTS
82201619	F200406527	US	US8782186	Granted		31-Jul-2008	15-Jan-2022	3,766.00	SYSTEMS AND METHODS FOR ADDRESSING MANAGED ELEMENTS
82204112	F200407681	US	US8392546	Granted		28-Oct-2005	5-Sep-2024	7,706.00	DISTRIBUTED MANAGED SYSTEM, SYSTEM COMPONENTS, AND METHODS OF COMMUNICATING COMMANDS
82204703	F200407943	US	US7831768	Granted		30-Oct-2007	9-May-2022	7,706.00	METHOD AND APPARATUS FOR WRITING DATA TO A DISK ARRAY
82205429	F200408392	US	US7825512	Granted		12-Sep-2005	2-May-2022	7,706.00	ELECTRONIC PACKAGE WITH COMPLIANT ELECTRICALLY-CONDUCTIVE BALL INTERCONNECT
82208054	F200501046	US	US7926042	Granted		31-Oct-2005	12-Oct-2022	7,406.00	SYSTEM AND METHOD FOR DYNAMIC INSTRUMENTATION
82209239	F200501635	GB	GB2426841	Granted		4-Jun-2005	4-Jun-2021	691.79	MEMORY CONTROLLER

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82209242	F200501633	US	US7461216	Granted		23-Feb-2006	N/A	N/A	MEMORY CONTROLLER
82213925	F200504153	US	US9032127	Granted		14-Sep-2006	12-Nov-2022	3,606.00	METHOD OF BALANCING I/O DEVICE INTERRUPT SERVICE LOADING IN A COMPUTER SYSTEM
82213089	F200504853	US	US8369212	Granted		29-Aug-2006	5-Aug-2020	3,606.00	NETWORK PATH VALIDATION BASED ON USER-SPECIFIED CRITERIA
82217183	F200505971	US	US7984242	Granted		1-Jun-2009	19-Jan-2023	7,706.00	PROGRAM THREAD SYNCHRONIZATION
82218749	F200505871	US	US7387555	Granted		10-Nov-2005	8-Mar-2021	7,706.00	PROGRAM THREAD SYNCHRONIZATION
82221359	F200600469	US	US7600111	Granted		20-Sep-2006	6-Apr-2021	7,706.00	METHOD OF RESTARTING A COMPUTER PLATFORM
82222361	F200600469	US	US7962734	Granted		15-Mar-2007	14-Dec-2022	7,706.00	METHOD OF RESTARTING A COMPUTER PLATFORM
82222121	F200600653	US	US7933993	Granted		24-Apr-2006	26-Oct-2022	7,406.00	RELOCATABLE VIRTUAL PORT FOR ACCESSING EXTERNAL STORAGE
82226867	F200602849	US	US7877645	Granted		30-Jul-2007	25-Jul-2022	7,406.00	USE OF OPERATIONAL CONFIGURATION PARAMETERS TO PREDICT SYSTEM FAILURES
82230503	F200700250	US	US8029741	Granted		30-Jul-2007	6-Jul-2022	3,766.00	OPTICAL INTERCONNECT

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82232561	F200700952	US	US8255513	Granted		14-Dec-2001	28-Feb-2024	7,706.00	A TOPOLOGY INFORMATION SYSTEM FOR A MANAGED WORLD
82233401	F200701159	US	US7984150	Granted		31-Jul-2007	19-Jan-2023	7,706.00	CELL COMPATIBILITY IN MULTIPROCESSOR SYSTEMS
82233404	F200701159	CN	CN200810129477.4	Granted		31-Jul-2008	31-Jul-2021	1,032.98	CELL COMPATIBILITY IN MULTIPROCESSOR SYSTEMS
82235156	F200701620	US	US8357980	Granted		15-Oct-2007	22-Jul-2020	3,606.00	PLASMONIC HIGH-SPEED DEVICES FOR ENHANCING THE PERFORMANCE OF MICROELECTRONIC DEVICES
82235162	F200701620	CN	CN200880112331.7	Granted		15-Oct-2008	15-Oct-2021	1,032.98	PLASMONIC HIGH-SPEED DEVICES FOR ENHANCING THE PERFORMANCE OF MICROELECTRONIC DEVICES
82235165	F200701620	DE	DE112008002737	Granted		15-Oct-2008	15-Oct-2021	1,178.09	PLASMONIC HIGH-SPEED DEVICES FOR ENHANCING THE PERFORMANCE OF MICROELECTRONIC DEVICES
82235168	F200701620	JP	JPS222950	Granted		15-Oct-2008	15-Mar-2021	397.69	PLASMONIC HIGH-SPEED DEVICES FOR ENHANCING THE PERFORMANCE OF MICROELECTRONIC DEVICES

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82235171	F200701620	KR	KR10-1517423	Granted		15-Oct-2008	28-Apr-2021	451.15	PLASMONIC HIGH-SPEED DEVICES FOR ENHANCING THE PERFORMANCE OF MICROELECTRONIC DEVICES
82235777	F200701831	US	US8053748	Granted		20-Oct-2008	8-May-2023	7,706.00	INTEGRATED CIRCUITS WITH PHASE CHANGE DEVICES
82854022	F200701831	US	US8212230	Granted		25-Sep-2011	3-Jan-2024	7,706.00	INTEGRATED CIRCUITS WITH PHASE CHANGE DEVICES
82236662	F200702022	US	US8254996	Granted		21-Aug-2008	28-Feb-2024	7,706.00	SYSTEMS AND METHODS FOR MANAGING ACCESS CHANNELS
82240685	F200703283	US	US9389649	Granted		25-Mar-2008	12-Jan-2024	3,766.00	LOCKING MECHANISM WITH MOVABLE AND FIXED MEMBERS EACH HAVING SINGLE AND DOUBLE LOCKING FEATURES
82241528	F200703619	US	US8373061	Granted		28-Oct-2008	12-Aug-2020	3,606.00	PHOTOVOLTAIC CELLS WITH STACKED LIGHT-ABSORPTION LAYERS AND METHODS OF FABRICATING THE SAME
82573265	F200704722	CN	CN200880138176.1	Granted		2-Jul-2008	2-Jul-2020	1,081.10	VERIFICATION OF REMOTE COPIES OF DATA
82756289	F200801174	US	US8368118	Granted		16-Dec-2008	5-Aug-2020	3,606.00	SEMICONDUCTOR STRUCTURE HAVING AN ELOG ON A THERMALLY AND ELECTRICALLY CONDUCTIVE MASK

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82853054	F200802102	CN	CN2009801589805	Granted		27-Apr-2009	27-Apr-2021	1,032.98	ENERGY-EFFICIENT STANDBY MODE IN A SWITCHING POWER SUPPLY
82853058	F200802102	US	US9401635	Granted		27-Apr-2009	26-Jan-2024	3,766.00	SWITCHING POWER SUPPLY FOR A LOAD IN STANDBY MODE
82852232	F200802394	US	US8664605	Granted		28-Apr-2009	4-Sep-2021	3,766.00	COVERT LABEL STRUCTURE
82249742	F200803068	US	US8370688	Granted		22-Apr-2010	5-Aug-2020	3,606.00	IDENTIFYING A STORAGE DEVICE AS FAULTY FOR A FIRST STORAGE VOLUME WITHOUT IDENTIFYING THE STORAGE DEVICE AS FAULTY FOR A SECOND STORAGE VOLUME
82249793	F200803147	US	US8370571	Granted		8-Apr-2009	5-Aug-2020	3,606.00	TRANSFER CONTROL OF A STORAGE VOLUME BETWEEN STORAGE CONTROLLERS IN A CLUSTER
82854071	F200803277	US	US9494419	Granted		31-Jul-2009	15-May-2024	3,766.00	BEAM DIRECTION SENSOR
82925991	F200803277	CN	CN2009801607095	Granted		31-Jul-2009	31-Jul-2021	1,032.98	BEAM DIRECTION SENSOR
82250642	F200803771	US	US9311319	Granted		27-Aug-2009	12-Oct-2023	3,766.00	METHOD AND SYSTEM FOR ADMINISTRATION OF STORAGE OBJECTS
82250732	F200900008	US	US7939967	Granted		25-Jun-2009	10-Nov-2022	7,706.00	MULTIPLE POWER SUPPLY CONTROL

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82237317	F200901894	US	US8930010	Granted		5-Feb-2007	6-Jul-2022	3,606.00	INTELLIGENT ASSEMBLY SYSTEM AND METHOD OF USE
82853115	F200902751	US	US8634321	Granted		18-Dec-2009	21-Jul-2021	3,606.00	PROXY AGENTS IN A NETWORK
82635896	F200903834	TW	TW477810	Granted		31-Jan-2011	20-Mar-2021	359.56	OPTICAL DEVICES BASED ON NON-PERIODIC SUB-WAVELENGTH GRATINGS
82853254	F200903834	US	US8952403	Granted		29-Jan-2010	10-Aug-2022	3,766.00	OPTICAL DEVICES BASED ON NON-PERIODIC SUB-WAVELENGTH GRATINGS
84121874	F200903834	US	US10061139	Granted		14-Jan-2015	28-Feb-2022	2,006.00	OPTICAL DEVICES BASED ON NON-PERIODIC SUB-WAVELENGTH GRATINGS
82654418	F200904389	TW	TWI440907	Granted		1-Mar-2011	10-Jun-2021	359.56	TELECENTRIC OPTICAL ASSEMBLY
83119816	F200904389	US	US8947796	Granted		7-May-2010	3-Aug-2022	3,766.00	TELECENTRIC OPTICAL ASSEMBLY
83164636	F200904841	US	US9158647	Granted		20-Jul-2010	13-Apr-2023	3,766.00	FORMATTING SYSTEM MONITORING INFORMATION
83235817	F201001046	JP	JP5777722	Granted		29-Oct-2010	17-Jul-2021	476.28	SMALL-MODE-VOLUME, VERTICAL-CAVITY, SURFACE-EMITTING LASER
83235820	F201001046	US	US9991676	Granted		29-Oct-2010	5-Dec-2021	2,006.00	SMALL-MODE-VOLUME, VERTICAL-CAVITY, SURFACE-EMITTING LASER

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82265270	F201001847	US	US88726261	Granted		6-Apr-2011	13-Nov-2021	3,766.00	ZERO DOWNTIME HARD DISK FIRMWARE UPDATE
83546345	F201001922	KR	KR101603135	Granted		10-Feb-2011	8-Mar-2021	342.80	GRATING-BASED POLARIZERS AND OPTICAL ISOLATORS
82271360	F201003405	US	US6665543	Granted		4-Oct-2000	N/A	N/A	ANTENNA EXTRACTION ON REMOVAL OF STYLUS FOR HANDHELD DEVICE
82272962	F201004041	US	US7002932	Granted		12-Jan-2001	N/A	N/A	METHOD AND SYSTEM FOR PROVIDING NETWORK CONNECTIVITY AND MOBILITY WHILE ROAMING
82273352	F201004237	US	US7137047	Granted		5-Apr-2004	N/A	N/A	METHOD AND APPARATUS FOR SELECTION OF ARQ PARAMETERS AND ESTIMATION OF IMPROVED COMMUNICATIONS
82273664	F201004389	US	US8346938	Granted		25-Sep-2002	1-Jul-2024	7,706.00	EFFICIENT ESTABLISHMENT OF WIRELESS CONNECTIONS
82273793	F201004428	US	US7424532	Granted		15-Feb-2002	N/A	N/A	METHOD AND SYSTEM FOR AUTOMATIC NETWORK RESOURCE SELECTION AND CONFIGURATION IN A NETWORK ENVIRONMENT

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82274156	F201004550	US	US9479464	Granted		14-Apr-2009	25-Apr-2024	3,766.00	COMPUTER SYSTEM AND NETWORK INTERFACE WITH HARDWARE BASED PACKET FILTERING AND CLASSIFICATION
82274387	F201004599	US	US7702903	Granted		8-Aug-2005	20-Oct-2021	7,706.00	LICENSE RE-ALLOCATION SYSTEM AND METHOD
82274405	F201004603	GB	GB2411540	Granted		25-Feb-2004	25-Feb-2021	764.74	CASCADE CONTROL SYSTEM FOR NETWORK UNITS
82274408	F201004603	US	US7660323	Granted		28-Jun-2004	9-Aug-2021	7,706.00	CASCADE CONTROL SYSTEM FOR NETWORK UNITS
82274432	F201004608	US	US8327026	Granted		1-Jul-2004	4-Jun-2024	7,706.00	METHOD AND SYSTEM FOR SELECTING A DATA COMPRESSION TECHNIQUE FOR DATA TRANSFER THROUGH A DATA NETWORK
82274459	F201004619	US	US7480260	Granted		13-May-2004	N/A	N/A	METHOD AND APPARATUS FOR IMPLEMENTING A PRESENCE-BASED UNIVERSAL CAMP-ON FEATURE IN PACKET-BASED TELEPHONY SYSTEMS
82274465	F201004621	GB	GB2414623	Granted		27-May-2004	27-May-2021	764.74	DISTRIBUTED BRIDGING WITH SYNCHRONIZATION OF FORWARDING DATABASES

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82274468	F201004621	US	US7483999	Granted		9-Jul-2004	N/A	N/A	DISTRIBUTED BRIDGING WITH SYNCHRONIZATION FORWARDING DATABASES
82274471	F201004622	US	US7555751	Granted		11-Aug-2004	N/A	N/A	METHOD AND SYSTEM FOR PERFORMING A LIVE SYSTEM UPGRADE
82274480	F201004624	US	US8792473	Granted		11-Mar-2005	29-Jan-2022	3,606.00	METHOD AND SYSTEM FOR PROVIDING PASS THROUGH WEB CONFIGURATION ON AN INTERNET PROTOCOL (IP) TELEPHONE
82274483	F201004625	US	US9056618	Granted		11-Mar-2005	19-Nov-2022	3,606.00	METHOD AND SYSTEM FOR PROVIDING VOICE ASSISTED CONFIGURATION ON AN INTERNET PROTOCOL (IP) TELEPHONE
82274519	F201004633	US	US7480299	Granted		22-Feb-2005	N/A	N/A	RULES ENGINE FOR ACCESS CONTROL LISTS IN NETWORK UNITS
82274522	F201004633	GB	GB2420468	Granted		17-Nov-2004	17-Nov-2020	681.61	PACKET METERING IN HIGH-SPEED NETWORK UNITS
82274525	F201004635	US	US7349335	Granted		11-Jan-2005	N/A	N/A	PACKET METERING IN HIGH-SPEED NETWORK UNITS
82274528	F201004636	US	US8767974	Granted		15-Jun-2005	1-Jan-2022	3,606.00	SYSTEM AND METHOD FOR GENERATING COMFORT NOISE

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82274531	F201004637	US	US7526081	Granted		5-Oct-2004	N/A	N/A	TELEPHONE RECORDING AND STORING ARBITRARY KEYSTROKES SEQUENCE WITH REPLAY WITH A SINGLE STROKE
82274534	F201004637	US	US8218531	Granted		13-Mar-2009	10-Jan-2024	7,706.00	TELEPHONE RECORDING AND STORING ARBITRARY KEYSTROKES SEQUENCE WITH REPLAY WITH A SINGLE STROKE
82274555	F201004642	US	US7480300	Granted		22-Feb-2005	N/A	N/A	CONTENT ADDRESSABLE MEMORY ORGANIZED TO SHARE ENTRIES BETWEEN DIFFERENT ENTITIES SUCH AS PORTS OF A NETWORK UNIT
82274777	F201004678	US	US7711744	Granted		18-Jan-2006	4-Nov-2021	7,406.00	SIMPLE AND FAST DIRECTORY SEARCH WITH REDUCED KEYSTROKES AND REDUCED SERVER CALLS
82274798	F201004688	US	US7532474	Granted		21-Feb-2006	12-Nov-2020	7,406.00	APPARATUS FOR DISSIPATING HEAT FROM ELECTRONIC COMPONENTS IN AN ENCLOSED HOUSING
83062101	F30003028	US	US6925288	Granted		29-Mar-2001	N/A	N/A	GATHERING INFORMATION FROM SHORT-RANGE WIRELESS PORTALS
82065014	F30012087	US	US6873270	Granted		30-Oct-2002	N/A	N/A	DATA STORAGE AND ANALYSIS

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82070618	F50004606	US	US6920492	Granted		18-Jun-2001	N/A	N/A	PROCESS FOR CONTROLLING DEVICES OF AN INTRANET NETWORK THROUGH THE WEB
82070621	F50004606	DE	DE60039975.9	Expired		19-Jun-2000	N/A	N/A	PROCESS FOR CONTROLLING DEVICES OF AN INTRANET NETWORK THROUGH THE WEB
82070627	F50004606	GB	GB1168711	Expired		19-Jun-2000	N/A	N/A	PROCESS FOR CONTROLLING DEVICES OF AN INTRANET NETWORK THROUGH THE WEB
82070890	F50011154	US	US7062673	Granted		7-Jun-2002	N/A	N/A	METHOD OF AND COMPUTER NETWORK ARRANGEMENT FOR RESTORING AN IMPAIRED SOFTWARE IMAGE
82801074	F700205328	US	US8862577	Granted		15-Aug-2011	14-Apr-2022	3,766.00	VISUALIZING SENTIMENT RESULTS WITH VISUAL INDICATORS REPRESENTING USER SENTIMENT AND LEVEL OF UNCERTAINTY
82689078	F700205361	US	US8539113	Granted		16-Jun-2011	17-Mar-2021	3,766.00	INDICATORS FOR STREAMS ASSOCIATED WITH MESSAGES
83791163	F700205461	KR	KR101602811	Granted		29-Jul-2011	7-Mar-2021	383.94	OPTICAL POWER SPLITTERS
83791132	F700205462	KR	KR10-1563608	Granted		29-Jul-2011	21-Oct-2021	463.28	FIBER OPTICS CONNECTORS

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83791138	F700205462	US	US9052475	Granted		29-Jul-2011	9-Dec-2022	3,766.00	FIBER OPTICS CONNECTORS
82654416	F700205946	US	US8549219	Granted		7-Dec-2010	1-Apr-2021	3,766.00	PREVENTING HARD DRIVE FAILURE AND DATA LOSS DUE TO VIBRATION
82755131	F700206210	US	US8924667	Granted		3-Oct-2011	30-Jun-2022	3,766.00	BACKUP STORAGE MANAGEMENT
83698837	F700206232	CN	CN201180070805.8	Granted		18-Jul-2011	18-Jul-2020	666.46	OPTICAL INTERCONNECT
83698845	F700206232	US	US9170377	Granted		18-Jul-2011	27-Apr-2023	3,766.00	OPTICAL INTERCONNECT
82753547	F700206817	US	US9218527	Granted		29-Sep-2011	22-Jun-2023	3,766.00	ANOMALY DETECTION IN STREAMING DATA
82859781	F700206858	US	US9413358	Granted		29-Apr-2012	9-Feb-2024	3,766.00	FORWARD COUNTER BLOCK
84049818	F700207121	US	US9164250	Granted		14-Mar-2012	20-Apr-2023	3,766.00	REPLACEABLE MODULAR OPTICAL CONNECTION ASSEMBLY
82871690	F700207287	US	US8811210	Granted		13-Feb-2012	19-Feb-2022	3,766.00	EFFECTIVE APPLICATION DENSITIES FOR FABRICS
83930310	F700207642	US	US9341780	Granted		9-Dec-2011	17-Nov-2023	3,766.00	OPTICAL CONNECTIONS
82978201	F700207679	US	US8883616	Granted		31-Jul-2012	11-May-2022	3,766.00	GERMANIUM ON INSULATOR APPARATUS
82850245	F700207691	US	US8711691	Granted		21-Feb-2012	29-Oct-2021	3,766.00	GATEWAY CHANNEL UTILIZATION

Patent ID Tranche 7	Patent Family Id	CC	Patent Number	Patent Status	Application Number if not Granted	Filed Date	Annuity Due Date	Annuity Cost (Est. USD)	Application Title
83996161	F700208065	US	US9372522	Granted		20-Apr-2012	21-Dec-2023	3,766.00	OVERVOLTAGE PROTECTION SYSTEMS AND METHOD
83991414	F700208157	US	US9413623	Reviving		26-Apr-2012	9-Feb-2024	3,606.00	MULTICAST ROUTING PATH CHECK
83992351	F700208617	US	US9161105	Granted		11-Apr-2012	13-Apr-2023	3,766.00	ROUTING OPTICAL SIGNALS
83130130	F700209140	US	US9246774	Granted		21-Feb-2013	26-Jul-2023	3,766.00	SAMPLE BASED DETERMINATION OF NETWORK POLICY VIOLATIONS
84076180	F700209670	US	US9520946	Granted		26-Jul-2012	13-Jun-2024	3,766.00	OPTICAL ENGINE
83992436	F700209695	US	US9176279	Granted		25-Apr-2012	3-May-2023	3,766.00	ANALYZING LIGHT BY MODE INTERFERENCE
83206779	F700212807	US	US9058295	Granted		25-Apr-2013	16-Dec-2022	3,766.00	ENCRYPT DATA OF STORAGE DEVICE
90142920	F700214270	US	US9715431	Granted		15-Jul-2013	25-Jan-2021	2,006.00	REBUILDING DRIVE DATA
83777585	F700215692	US	US9329965	Granted		31-Jan-2014	3-Nov-2023	3,766.00	EXTRACTING LOG FILES FROM STORAGE DEVICES
84293496	FARBA0002	CN	CN200780041079.0	Granted		3-Jul-2007	3-Jul-2021	1,032.98	A METHOD AND SYSTEM FOR DYNAMIC METRIC AND WIRELESS HELLO PROTOCOL
84268251	FARBA0042	US	US8351546	Granted		17-Dec-2008	8-Jul-2024	7,706.00	SENSING DEVICE ORIENTATION IN WIRELESS NETWORKS

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84268551	FARBA0118	US	US7983163	Granted		23-Dec-2008	19-Jan-2023	7,706.00	SYSTEM AND METHOD FOR IMPLEMENTING ADAPTIVE LOAD SHARING TO BALANCE NETWORK TRAFFIC