

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM571914

| | |
|------------------------------|------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | RELEASE OF SECURITY INTEREST |

CONVEYING PARTY DATA

| Name | Formerly | Execution Date | Entity Type |
|--|----------|----------------|--|
| Wells Fargo Bank, National Association | | 03/19/2020 | National Banking Association: UNITED STATES |

RECEIVING PARTY DATA

| | |
|--------------------------|-----------------------|
| Name: | Unisys Corporation |
| Street Address: | 801 Lakeview Drive |
| Internal Address: | Suite 100 |
| City: | Blue Bell |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19422 |
| Entity Type: | Corporation: DELAWARE |

PROPERTY NUMBERS Total: 27

| Property Type | Number | Word Mark |
|----------------------|---------|-----------------------------------|
| Registration Number: | 1814066 | UNISYS |
| Registration Number: | 4834443 | CHOREOGRAPHER |
| Registration Number: | 4740333 | ONE PLATFORM. NO SECOND THOUGHTS. |
| Registration Number: | 4945240 | UNISYS STEALTH |
| Registration Number: | 4950846 | AB SUITE |
| Registration Number: | 5125401 | CLEARPATH FORWARD |
| Registration Number: | 4997364 | LEIDA |
| Registration Number: | 2455513 | UNISYS |
| Registration Number: | 4117355 | S-PAR |
| Registration Number: | 0865591 | BURROUGHS |
| Registration Number: | 0868643 | BURROUGHS |
| Registration Number: | 0515406 | UNIVAC |
| Registration Number: | 1532743 | UNISYS |
| Registration Number: | 1559781 | MAPPER |
| Registration Number: | 1759607 | UNISYS |
| Registration Number: | 2083268 | CLEARPATH |
| Registration Number: | 2455492 | UNISYS |
| Registration Number: | 3114620 | AIRCORE |

TRADEMARK

| Property Type | Number | Word Mark |
|----------------------|----------|------------------------|
| Registration Number: | 5007414 | CLEARPATH |
| Registration Number: | 5007420 | CLEARPATH |
| Registration Number: | 4955748 | CLEARPATH CONNECTION |
| Registration Number: | 1963313 | INFOIMAGE |
| Registration Number: | 2310113 | INFOCONNECT |
| Serial Number: | 86823984 | U-LEAF |
| Serial Number: | 87223553 | CLEARPATH FORWARD |
| Serial Number: | 87237014 | SECURING YOUR TOMORROW |
| Serial Number: | 87106892 | LINESIGHT |

CORRESPONDENCE DATA

Fax Number: 2156894688

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: 215-981-4194

Email: kennedyp@pepperlaw.com, catalant@pepperlaw.com, tierm@pepperlaw.com

Correspondent Name: Paul J. Kennedy

Address Line 1: 3000 Two Logan Square

Address Line 2: Eighteenth and Arch Streets

Address Line 4: Philadelphia, PENNSYLVANIA 19103-2799

| | |
|--------------------------------|-------------------|
| ATTORNEY DOCKET NUMBER: | 55107.254 |
| NAME OF SUBMITTER: | Paul J. Kennedy |
| SIGNATURE: | /Paul J. Kennedy/ |
| DATE SIGNED: | 04/14/2020 |

Total Attachments: 85

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page1.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page2.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page3.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page4.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page5.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page6.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page7.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page8.tif

source=Wells Release of IP Security Interests (Patent and Trademark) 6043-0646 and 42354-0001 w RELEASED MARKS#page9.tif

**TERMINATION AND RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY
(TRADEMARKS AND PATENTS)**

This Termination and Release of Security Interest in Intellectual Property (this “Release”) is made this 19th day of March, 2020, by Wells Fargo Bank, National Association, as the Collateral Trustee (the “Collateral Trustee”), in favor of Unisys Corporation (“Grantor”).

WHEREAS, pursuant to the terms and conditions of that Collateral Trust Agreement by Grantor in favor of the Collateral Trustee, dated as of April 17, 2017 (the “Collateral Agreement”), Grantor granted to the Collateral Trustee, for the benefit of the Secured Parties, a continuing security interest in all of Grantor’s right, title and interest in, to and under the Collateral, including but not limited to, the Intellectual Property (capitalized terms not otherwise defined herein shall have the meanings given to them in the Collateral Agreement);

WHEREAS, reference is made to (i) a certain Trademark Security Agreement dated April 17, 2017 (the “Trademark Security Agreement”) by and between Grantor and the Collateral Trustee, and (ii) a certain Patent Security Agreement dated April 17, 2017 (the “Patent Security Agreement”) by Grantor in favor of the Collateral Trustee;

WHEREAS, in connection with the Trademark Security Agreement, Grantor granted to the Collateral Trustee a security interest in its Trademark Collateral (as defined in the Trademark Security Agreement), including without limitation the Trademarks set forth in Exhibit A hereof; and

WHEREAS, in connection with the Patent Security Agreement, Grantor granted to the Collateral Trustee a security interest in its Patent Collateral (as defined in the Patent Security Agreement), including without limitation the Patents set forth in Exhibit B hereof; and

WHEREAS, the Trademark Security Agreement was recorded with the United States Patent and Trademark Office (“USPTO”) on April 27, 2017 at Reel/Frame 6043/0646 with respect to Trademark Collateral;

WHEREAS, the Patent Security Agreement was recorded with the USPTO on April 27, 2017 at Reel/Frame 042354/0001 with respect to Trademark Collateral;

WHEREAS, Grantor’s obligations under the Collateral Agreement have been satisfied in full;

WHEREAS, pursuant to Article 4 of the Collateral Agreement, the Collateral Trustee has the requisite power and authority to release and discharge its security interest in and to the Intellectual Property; and

WHEREAS, the parties hereto desire to confirm and evidence the termination and release of the security interest in, to and under the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Trustee, on behalf of itself and its

successors, legal representatives and assigns, hereby unconditionally, irrevocably and absolutely, without recourse to or representation or warranty of any kind by the Collateral Trustee, (i) assigns to Grantor all of the Collateral Trustee's right, title and interest (if any) in and to the Intellectual Property and (ii) terminates, cancels, releases and forever discharges any and all security interests it holds in, to and under the Intellectual Property, including, without limitation, the Trademarks and Patents set forth on Exhibit A and Exhibit B, respectively.

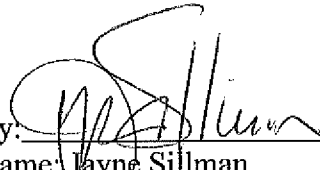
The Collateral Trustee shall take all further reasonable actions, and provide to Grantor or its successors, assigns or other legal representatives, all such reasonable cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), requested by Grantor to more fully and effectively effectuate the purposes of this Release, in each case, at Grantor's expense. By this instrument, the Collateral Trustee authorizes and requests Grantor to record this Release with the USPTO.

This Release shall be governed by the internal laws of the State of New York, without giving effect to the choice of law provisions thereof.

SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF, the Collateral Trustee has caused this Release to be executed by its respective duly authorized representative as of the date first above written.

**WELLS FARGO BANK, NATIONAL
ASSOCIATION**, as the Collateral Trustee

By:  _____
Name: Jayne Sillman
Title: Vice President

**Exhibit A
Trademarks**

1. REGISTERED TRADEMARKS:

| MARK | STATUS | Reg./App. No. | Reg./App. Date |
|-----------------------------------|---------------|----------------------|-----------------------|
| UNISYS RELEASED | Registered | 1814066 | 12/28/2003 |
| CHOREOGRAPHER | Registered | 4834443 | 10/20/2015 |
| ONE PLATFORM. NO SECOND THOUGHTS. | Registered | 4740333 | 5/19/2015 |
| UNISYS STEALTH | Registered | 4945240 | 4/26/2016 |
| AB SUITE | Registered | 4950846 | 5/3/2016 |
| ClearPath Forward | Registered | 5125401 | 1/17/2017 |
| LEIDA | Registered | 4997364 | 7/12/2016 |
| UNISYS RELEASED | Registered | 2455513 | 5/29/2001 |
| S-PAR RELEASED | Registered | 4117355 | 3/27/2012 |
| BURROUGHS RELEASED | Registered | 865591 | 3/4/1989 |
| BURROUGHS RELEASED | Registered | 868643 | 4/29/1989 |
| UNIVAC RELEASED | Registered | 515406 | 9/20/1989 |
| UNISYS | Registered | 1532743 | 4/4/1989 |
| MAPPER RELEASED | Registered | 1559781 | 10/10/1989 |
| UNISYS (LOGO) RELEASED | Registered | 1759607 | 3/23/2003 |
| CLEARPATH RELEASED | Registered | 2083268 | 7/29/1997 |
| UNISYS RELEASED | Registered | 2455492 | 5/29/2001 |
| AIRCORE RELEASED | Registered | 3114620 | 7/11/2006 |
| CLEARPATH | Registered | 5007414 | 7/26/2016 |
| CLEARPATH | Registered | 5007420 | 7/26/2016 |
| ClearPath Connection | Registered | 4955748 | 5/10/2016 |
| INFOIMAGE RELEASED | Registered | 1963313 | 3/19/1996 |
| INFOCONNECT RELEASED | Registered | 2310113 | 1/25/2000 |

2. TRADEMARK APPLICATIONS:

| MARK | STATUS | Reg./App. No. | Reg./App. Date |
|------------------------|---------------|----------------------|-----------------------|
| U-LEAF | Pending | 86823984 | 11/28/2015 |
| CLEARPATH FORWARD | Pending | 87223553 | 11/2/2016 |
| SECURING YOUR TOMORROW | Pending | 87237014 | 11/15/2016 |
| LINESIGHT | Pending | 87106982 | 7/18/2016 |

3. TRADEMARK LICENSES UNDER WHICH A GRANTOR IS AN EXCLUSIVE LICENSEE:

None.

**Exhibit B
Patents**

1. ISSUED PATENTS:

| Title | Patent Number | Issue Date |
|--|------------------|-------------|
| SYSTEM AND METHOD FOR MAINTAINING TARGET RESPONSE TIMES IN BUSINESS METHODS | 7117184 | 03-Oct-2006 |
| A SYSTEM AND METHOD FOR DATABASE RECOVERY USING A MIRRORED SNAPSHOT OF AN ONLINE DATABASE | 6983295 | 03-Jan-2006 |
| MODELING REFLEXIVE INVERSE ASSOCIATIONS USING UNIFIED MODELING LANGUAGE | 7334214 | 19-Feb-2008 |
| METHOD FOR ZERO OVERHEAD SWITCHING OF ALTERNATE ALGORITHMS IN A COMPUTER PROGRAM | 7415702 | 19-Aug-2008 |
| REDUCING APPLICATION DOWNTIME IN A CLUSTER USING USER-DEFINED RULES FOR PROACTIVE FAILOVER | 7321992 | 22-Jan-2008 |
| FAILOVER AND FAILBACK USING A UNIVERSAL MULTI-PATH DRIVER FOR STORAGE DEVICES | 8122120 | 21-Feb-2012 |
| METHOD FOR USING DEFERRED COLUMN RETRIEVAL TO IMPROVE ROW RETRIEVAL AND QUERY PERFORMANCE OF OLE DB APPLICATIONS | 7386563 | 10-Jun-2008 |
| PROVIDING TIME SENSITIVITY TO AN INFERENCE ENGINE | 7162462 | 09-Jan-2007 |
| SYSTEMS AND METHODS FOR DISPLAYING PROCESSOR USAGE IN A MULTIPROCESSOR SYSTEM | 7595804 | 29-Sep-2009 |
| DYNAMIC RESOURCE MANAGEMENT SYSTEM AND METHOD FOR MULTIPROCESSOR SYSTEMS | 7461376 | 02-Dec-2008 |
| DATA COMPRESSOR UTILIZING SWITCHED INPUT COINCIDENCE ELEMENTS | 6674374 | 06-Jan-2004 |
| METHOD FOR HEALTH MONITORING WITH PREDICTIVE HEALTH SERVICE IN A MULTI-PROCESSOR SYSTEM | 7506215 | 17-Mar-2009 |

| Title | Patent Number | Issue Date |
|---|--------------------|----------------------------|
| A FIRMWARE INTERFACE INTEGRATED SYSTEM REPORTING AND DIAGNOSTIC TOOL DISPLAYING ABNORMAL AND ERROR CONDITIONS IN SYSTEM STATE ANALYSIS | 7130993 7171593 | 31-Oct-2006 30-Jan-2007 |
| DATA COMPRESSOR WITH ACCELERATED LONGEST MATCH GENERATION UTILIZING SWITCHED INPUT COINCIDENCE ELEMENTS | 6756923 | 29-Jun-2004 |
| AUTOMATIC ANALYSIS OF MEMORY OPERATIONS | 7401261 | 15-Jul-2008 |
| RECORDING RELEVANT INFORMATION IN A GUI WINDOW OF A PANEL DUMP BROWSER TOOL | 7793229 | 07-Sep-2010 |
| METHOD FOR PREDICTABLY FEEDING AND CONSUMING RAM MEMORY TO RECOGNIZE OVER- CONSUMPTION OF RESOURCES | 7231541 | 12-Jun-2007 |
| GLOBAL MANAGEMENT OF JOBS IN A HETEROGENEOUS SYSTEM | 7383546 | 03-Jun-2008 |
| CONVERTING PHYSICAL ASPECTS OF COMMON WAREHOUSE MODEL TO ELEMENTS OF RELATIONAL DATABASE | 7617223 | 10-Nov-2009 |
| DATA DECOMPRESSOR UTILIZING SEQUENTIALLY COUPLED GATES | 6812866 | 02-Nov-2004 |
| DYNAMIC MONITORING OF SYSTEM RESOURCES USING SNAPSHOTS OF SYSTEM STATES | 7203868 | 10-Apr-2007 |
| METHOD AND SYSTEM FOR A TELEMETRY WAREHOUSE FOR STORING, RETRIEVING, AND ANALYZING DATA | 7340477 | 04-Mar-2008 |
| SYSTEM AND METHOD FOR VERIFICATION OF A QUIESCED DATABASE COPY | 7200626 | 03-Apr-2007 |
| METHOD FOR REDUCING DATABASE RECOVERY TIME DETECTION AND REPAIR OF CORRUPTED CRITICAL DATA STRUCTURES WITHOUT OPERATIONAL INTERRUPTION | 7222133 7415632 | 22-May-2007 19-Aug-2008 |
| METHOD AND SYSTEM FOR USING STORED DATA ITEMS IN NATIVE DATA FORMATS IN EMULATED E- MODE PROGRAMS | 7516061 | 07-Apr-2009 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD FOR PREDICTIVE HEALTH MONITORING OF HEALTH TRENDS | 7254750 | 07-Aug-2007 |
| SYSTEM AND METHOD FOR CREATING MULTIPLE QUIESCE DATABASE COPIES AT A SINGLE SERVER | 7263537 | 28-Aug-2007 |
| REMOTE DISCOVERY AND SYSTEM ARCHITECTURE METHOD FOR EXPOSING HIERARCHICAL TABLE STRUCTURES AND RELATIONSHIPS TO OLE DB APPLICATIONS | 7613797 | 03-Nov-2009 |
| UNIVERSAL MULTI-PATH DRIVER FOR STORAGE SYSTEMS INCLUDING AN EXTERNAL BOOT DEVICE WITH FAILOVER AND FAILBACK CAPABILITIES | 7406617 | 29-Jul-2008 |
| PROCESS FOR OPTIMIZING SOFTWARE COMPONENTS FOR AN ENTERPRISE RESOURCE PLANNING (ERP) APPLICATION SAP ON MULTIPROCESSOR SERVERS ON-THE-FLY DATA INTEGRITY TRANSFER SYSTEM HANDLING MIXED BLOCK SIZES | 7805706 | 28-Sep-2010 |
| AUXILIARY MESSAGE ARBITRATOR FOR DIGITAL MESSAGE TRANSFER SYSTEM IN NETWORK OF HARDWARE MODULES | 6131176 | 10-Oct-2000 |
| MESSAGE CONTROL SYSTEM FOR MANAGING MESSAGE RESPONSE IN A KERBEROS ENVIRONMENT | 5842003 | 24-Nov-1998 |
| LINEAR FUNCTION GENERATOR METHOD WITH COUNTER FOR IMPLEMENTATION OF CONTROL SIGNALS IN DIGITAL LOGIC | 6003136 | 14-Dec-1999 |
| ASYNCHRONOUS MESSAGE SYSTEM FOR MENU-ASSISTED RESOURCE CONTROL PROGRAM | 6041337 | 21-Mar-2000 |
| EXPONENTIAL FUNCTIONAL RELATIONSHIP GENERATOR METHOD AND SYSTEM FOR IMPLEMENTATION AND DIGITAL LOGIC | 6009175 | 28-Dec-1999 |
| SYNCHRONOUS MESSAGE CONTROL SYSTEM IN A KERBEROS DOMAIN | 5935200 | 10-Aug-1999 |
| | 6055639 | 25-Apr-2000 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| CONTROL METHOD OF MESSAGE COMMUNICATION IN NETWORK SUPPORTING SOFTWARE EMULATED MODULES AND HARDWARE IMPLEMENTED MODULES | 5983266 | 09-Nov-1999 |
| MESSAGE TRANSFER SYSTEM AND CONTROL METHOD FOR MULTIPLE SENDING AND RECEIVING MODULES IN A NETWORK SUPPORTING HARDWARE AND SOFTWARE EMULATED MODULES | 5944788 | 31-Aug-1999 |
| INTERRUPT HANDLING SYSTEM FOR MESSAGE TRANSFERS IN NETWORK HAVING MIXED HARDWARE AND SOFTWARE EMULATED MODULES | 5999969 | 07-Dec-1999 |
| DIGITAL DEVICE CONTROL METHOD AND SYSTEM VIA LINEAR FUNCTION GENERATOR IMPLEMENTATION USING ADDER FOR INTERCEPT | 5928310 | 27-Jul-1999 |
| EXPEDITED MESSAGE CONTROL FOR SYNCHRONOUS RESPONSE IN A KERBEROS DOMAIN | 6175920 | 16-Jan-2001 |
| CONTROL SYSTEM FOR RECREATING OF DATA OUTPUT CLOCK FREQUENCY WHICH MATCHES DATA INPUT CLOCK FREQUENCY DURING DATA TRANSFERRING | 6295563 | 25-Sep-2001 |
| METHOD AND SYSTEM FOR WRAPPING SINGLE FILES FOR BURNING INTO COMPACT DISK | 5983295 | 09-Nov-1999 |
| SYSTEM AND METHOD FOR UNWRAPPING A SINGLE FILE FROM A COMPACT DISK FOR UTILIZATION BY VARIOUS COMPUTER PLATFORMS | 6085266 | 04-Jul-2000 |
| METHOD AND SYSTEM FOR REFORMATTING MULTIPLE FILES HAVING A FIRST FORMAT ONTO A COMPACT DISK TO BE UTILIZED IN A NETWORK USING DIFFERENT FORMAT | 6088747 | 11-Jul-2000 |
| UNWRAPPING SYSTEM AND METHOD FOR MULTIPLE FILES OF A CONTAINER | 6079047 | 20-Jun-2000 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| DIGITAL SIGNATURING METHOD AND SYSTEM FOR PACKAGING SPECIALIZED NATIVE FILES FOR OPEN NETWORK TRANSPORT AND FOR BURNING ONTO CD-ROM | 6415385 | 02-Jul-2002 |
| DIGITAL SIGNATURING METHOD AND SYSTEM FOR FOR RE-CREATING SPECIALIZED NATIVE FILES FROM SINGLE WRAPPED FILES IMPORTED FROM AN OPEN NETWORK OR RESIDING ON A CD-ROM | 6357006 | 12-Mar-2002 |
| DIGITAL SIGNATURING METHOD AND SYSTEM FOR WRAPPING MULTIPLE FILES INTO A CONTAINER FOR OPEN NETWORK TRANSPORT AND FOR BURNING ONTO A CD-ROM | 6282535 | 28-Aug-2001 |
| DIGITAL SIGNATURING METHOD AND SYSTEM FOR RE-CREATING SPECIALIZED NATIVE FILES OUT OF A CONTAINER IMPORTED FROM AN OPEN NETWORK OR RESIDING ON A CD-ROM | 6353887 | 05-Mar-2002 |
| HIGH SPEED SYSTEM AND METHOD FOR FLUSHING DATA BUFFERS AND UPDATING DATABASE STRUCTURE CONTROL INFORMATION MULTI-PROCESSOR SYSTEM FOR DATABASE MANAGEMENT | 6370528 | 09-Apr-2002 |
| TRACKER SENSING METHOD FOR REGULATING SYNCHRONIZATION OF AUDIT FILES BETWEEN PRIMARY AND SECONDARY HOSTS | 6446090 | 03-Sep-2002 |
| METHOD FOR ANALYZING THE CONDITIONAL STATUS OF SPECIALIZED DATA FILES | 6366900 | 02-Apr-2002 |
| ENHANCED SYSTEM AND METHOD FOR MANAGEMENT OF SYSTEM DATABASE UTILITIES DATABASE BACKUP SYSTEM AND METHOD UTILIZING NUMERICALLY IDENTIFIED FILES FOR INCREMENTAL DUMPING | 6411969 | 25-Jun-2002 |
| | 6374267 | 16-Apr-2002 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SYSTEM AND METHOD FOR EXPEDITING TRANSFER OF SECTIONED AUDIT FILES FROM A PRIMARY HOST TO A SECONDARY HOST | 6408310 | 18-Jun-2002 |
| COOPERATIVE SERVICE INTERFACE WITH BUFFER AND LOCK POOL SHARING, FOR ENHANCING MESSAGE-DIALOG TRANSFER BETWEEN NETWORK PROVIDER AND DISTRIBUTED SYSTEM SERVICES | 6009463 | 28-Dec-1999 |
| OUTPUT INTERFACE METHOD AND SYSTEM FOR ENHANCED DATA TRANSFERS VIA COOPERATIVE SERVICE INTERFACE | 6021430 | 01-Feb-2000 |
| NETWORK DATA PATH INTERFACE METHOD AND SYSTEM FOR ENHANCED DATA TRANSMISSION | 6081834 | 27-Jun-2000 |
| MULTIPLE INTERFACE HIGH SPEED DATA COM SYSTEM AND METHOD | 6101533 | 08-Aug-2000 |
| MULTIPLE INTERFACE DATA COMMUNICATION SYSTEM AND METHOD UTILIZING MULTIPLE CONNECTION LIBRARY INTERFACES WITH BUFFER AND LOCK POOL SHARING | 6085246 | 04-Jul-2000 |
| SYSTEM AND METHOD FOR RETRIEVING TAPE STATISTICAL DATA | 6269422 | 31-Jul-2001 |
| SYSTEM AND METHOD FOR DISPLAYING AND ANALYZING RETRIEVED MAGNETIC TAPE STATISTICS | 6408405 | 18-Jun-2002 |
| DELETION SYSTEM AND METHOD FOR REMOVING TRANSIENT TIMER ENTRIES FROM A CIRCULAR QUEUE | 6647505 | 11-Nov-2003 |
| METHOD FOR EFFICIENTLY DOWNLOADING SCSI AND SERVO FIRMWARE TO SCSI TARGET CONTROLLAWKERS | 6996819 | 07-Feb-2006 |
| LOOP INITIALIZATION PROCEDURE INTERRUPT HANDLING FOR FIBRE CHANNEL TRANSMISSIONS | 6584511 | 24-Jun-2003 |
| METHOD FOR ESTIMATING THE AVAILABILITY OF AN OPERATING SERVER FARM | 6496948 | 17-Dec-2002 |
| METHOD FOR SERVER FARM CONFIGURATION OPTIMIZATION | 6571283 | 27-May-2003 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD FOR SERVER METAFARM CONFIGURATION OPTIMIZATION | 6859929 | 22-Feb-2005 |
| AUTOMATIC FAULT MANAGEMENT SYSTEM UTILIZING ELECTRONIC SERVICE REQUESTS | 6654915 | 25-Nov-2003 |
| METHOD FOR COMPLEX PRODUCTS CONFIGURATION AND GUARANTEE GENERATION | 6453255 | 17-Sep-2002 |
| SYSTEM AND METHOD FOR REPLICATING MONITORED REGISTRY KEYS | 6820136 | 16-Nov-2004 |
| METHOD FOR RECOVERY OF ORIGINAL REGISTRY KEY FILE DATA | 6560719 | 06-May-2003 |
| METHOD FOR SEARCHING MULTIPLE FILE TYPES ON A CD ROM | 6654758 | 25-Nov-2003 |
| METHOD FOR PROVIDING DUPLICATE ORIGINAL FILE COPIES OF A SEARCHED TOPIC FROM MULTIPLE FILE TYPES DERIVED FROM THE WEB | 6938083 | 30-Aug-2005 |
| ENHANCED TIMER QUEUE MECHANISM FOR DYNAMIC CAPACITY INCREASE | 6763476 | 13-Jul-2004 |
| THIN CLIENT SIZING TOOL FOR ENTERPRISE SERVER FARM SOLUTION CONFIGURATOR | 7047177 | 16-May-2006 |
| CONFIGURATION INTERVIEW SESSION METHOD FOR THIN CLIENT SIZING TOOL | 7072844 | 04-Jul-2006 |
| METAFARM SIZER CONFIGURATION OPTIMIZATION METHOD FOR THIN CLIENT SIZING TOOL | 6963828 | 08-Nov-2005 |
| SOLUTION GENERATION METHOD FOR THIN CLIENT SIZING TOOL | 7050961 | 23-May-2006 |
| METHOD FOR CALCULATING USER WEIGHTS FOR THIN CLIENT SIZING TOOL | 7035919 | 25-Apr-2006 |
| METHOD FOR CALCULATING MEMORY REQUIREMENTS FOR THIN CLIENT SIZING TOOL | 7062426 | 13-Jun-2006 |
| IMPROVING TRANSACTION PROCESSING PERFORMANCE BY PREFERENTIALLY REUSING FREQUENTLY USED PROCESSES | 7222178 | 22-May-2007 |
| IC CHIP USING A PHASE-LOCKED-LOOP FOR PROVIDING SIGNALS HAVING DIFFERENT TIMING EDGES | 6100734 | 08-Aug-2000 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| OBJECT-ORIENTED APPARATUS AND METHOD IN A COMPUTER SYSTEM FOR ESTABLISHING/ALTERING THE OWNERSHIP RELATIONSHIP BETWEEN OBJECTS | 6128772 | 03-Oct-2000 |
| A METHOD FOR INCREASING DATABASE TRANSACTION LOG PERFORMANCE ON SYMMETRIC MULTI-PROCESSOR (SMP) COMPUTER SYSTEMS BY PIPELINING TRANSACTION LOG BUFFERS | 6131094 | 10-Oct-2000 |
| METHOD FOR GENERATING CODE FOR MODIFYING EXISTING EVENT ROUTINES FOR CONTROLS ON A FORM | 5815149 | 29-Sep-1998 |
| NEW AND IMPROVED SYSTEM AND METHOD FOR PERFORMING EXTERNAL PROCEDURE CALLS IN HETEROGENEOUS COMPUTERS | 6141697 | 31-Oct-2000 |
| SYSTEM AND METHOD FOR PERFORMING EXTERNAL PROCEDURE CALLS FROM A CLIENT PROGRAM TO A SERVER PROGRAM WHILE BOTH ARE RUNNING IN A HETEROGENEOUS COMPUTER | 6192418 | 20-Feb-2001 |
| SYSTEM AND METHOD FOR PERFORMING EXTERNAL PROCEDURE CALLS FROM A SERVER PROGRAM TO A CLIENT PROGRAM WHILE BOTH ARE RUNNING IN A HETEROGENEOUS COMPUTER | 6289391 | 11-Sep-2001 |
| SYSTEM AND METHOD FOR PERFORMING EXTERNAL PROCEDURE CALL FROM A CLIENT PROGRAM TO A SERVER PROGRAM AND BACK TO THE CLIENT PROGRAM WHILE BOTH ARE RUNNING IN A HETEROGENEOUS COMPUTER | 6151638 | 21-Nov-2000 |
| METHOD FOR DYNAMICALLY EMBEDDING OBJECTS STORED IN A WEB SERVER WITHIN HTML FOR DISPLAY BY A WEB BROWSER | 5974430 | 26-Oct-1999 |
| METHOD FOR EXTENDING HYPERTEXT MARKUP LANGUAGE (HTML) TO SUPPORT A GRAPHICAL USER INTERFACE CONTROL PRESENTATION | 6157936 | 05-Dec-2000 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD FOR EXTENDING THE HYPERTEST MARKUP LANGUAGE (HTML) TO SUPPORT ENTERPRISE APPLICATION DATA BINDING | 5940075 | 17-Aug-1999 |
| TOOL-INDEPENDENT APPLICATION DEVELOPMENT SYSTEM | 6018627 | 25-Jan-2000 |
| SOFTWARE DEVELOPMENT TOOL TO ACCEPT OBJECT MODELING DATA FROM A WIDE VARIETY OF OTHER VENDORS AND FILTER THE FORMAT INTO A FORMAT THAT IS ABLE TO BE STORED IN OMG COMPLIANT UML REPRESENTATION | 6038393 | 14-Mar-2000 |
| OBJECT-ORIENTED APPARATUS AND METHOD IN A COMPUTER SYSTEM FOR RELATING OBJECTS IN A COMPILER TO LOCATIONS IN THE SOURCE PROGRAM AND TO INLINED CALL HISTORIES | 6106574 | 22-Aug-2000 |
| AN OBJECT-ORIENTED APPARATUS AND METHOD IN A COMPUTER SYSTEM FOR A PROGRAMMING LANGUAGE COMPILER TO SELECT OPTIMAL POINTER KINDS FOR CODE GENERATION | 6129460 | 10-Oct-2000 |
| METHOD AND APPARATUS FOR PROPAGATING SOURCE CODE LOCATIONS INTO OBJECTS IN A COMPILER | 5978587 | 02-Nov-1999 |
| METHOD AND APPARATUS FOR TRACKING CHANGES IN SOURCE LOCATIONS OF OBJECTS IN A COMPILER | 5978586 | 02-Nov-1999 |
| A METHOD FOR SYNCHRONIZING THE SCHEMA OF A DATABASE WITH ITS REPRESENTATION IN AN OBJECT-ORIENTED REPOSITORY | 6026408 | 15-Feb-2000 |
| COMPUTER-IMPLEMENTED METHOD FOR GENERATING DISTRIBUTED OBJECT INTERFACES FROM METADATA | 6023579 | 08-Feb-2000 |
| METHOD FOR INCREASING DATABASE TRANSACTION LOG PERFORMANCE ON SYMMETRIC MULTI-PROCESSOR (SMP) COMPUTER SYSTEMS BY REDUCING SEMAPHORE CONTENTION WHILE WAITING TO TRANSFER LOG BUFFERS TO PERSISTENT STORAGE | 6101504 | 08-Aug-2000 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| A METHOD AND SYSTEM FOR MONITORING AND CAPTURING ALL FILE USAGE OF A SOFTWARE TOOL | 6237143 | 22-May-2001 |
| A METHOD AND SYSTEM FOR MONITORING AND CAPTURING ALL FILE USAGE OF A SOFTWARE TOOL | 6237143 | 22-May-2001 |
| A METHOD AND SYSTEM FOR INTERFACING TO A VARIETY OF SOFTWARE DEVELOPMENT TOOLS | 6170081 | 02-Jan-2001 |
| SOFTWARE SYSTEM DEVELOPMENT FRAMEWORK | 6167564 | 26-Dec-2000 |
| METHOD AND SYSTEM FOR CONTROLLING AND TRACKING CLIENT ACCESS TO SERVER SOFTWARE | 6178457 | 23-Jan-2001 |
| METHOD AND SYSTEM FOR BUILDING COMPONENTS IN A FRAMEWORK USEFUL IN DEVELOPING INTEGRATED BUSINESS-CENTRIC APPLICATIONS | 6167563 | 26-Dec-2000 |
| A METHOD FOR ASSOCIATING CLASSES CONTAINED IN THE SAME OR DIFFERENT MODELS | 6401100 | 04-Jun-2002 |
| METHOD FOR MERGING REPOSITORY UPDATES WITH INCOMPLETE WORK IN PROGRESS | 6275787 | 14-Aug-2001 |
| A SYSTEM AND COMPUTER-IMPLEMENTED METHOD FOR TRANSFORMING EXISTING HOST-BASED SCREEN APPLICATIONS INTO COMPONENTS USEFUL IN DEVELOPING INTEGRATED BUSINESS-CENTRIC APPLICATIONS | 6223180 | 24-Apr-2001 |
| SYSTEM AND COMPUTER-IMPLEMENTED METHOD FOR PROVIDING ACCESS TO HOST-BASED SCREEN APPLICATIONS USING BUSINESS-CENTRIC SOFTWARE COMPONENTS | 6253244 | 26-Jun-2001 |
| GENERIC METHOD FOR PROGRAMATICALLY LOCATING AND EXECUTING ANY APPLICATION | 6862733 | 01-Mar-2005 |
| AUTOMATED WEB INTERFACE GENERATION FOR SOFTWARE CODED APPLICATIONS | 7404177 | 22-Jul-2008 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| GENERIC METHOD FOR PROGRAMATICALLY LOCATING ANY DOCUMENT IN A COMPUTER NETWORK SYSTEM | 6639615 | 28-Oct-2003 |
| METHOD AND SYSTEM FOR GENERATING A SIMPLE DOCUMENT TYPE DEFINITION FOR DATA INTERCHANGE AMONG SOFTWARE TOOLS | 6289501 | 11-Sep-2001 |
| METHOD AND SYSTEM FOR GENERATING A COMPACT DOCUMENT TYPE DEFINITION FOR DATA INTERCHANGE AMONG SOFTWARE TOOLS | 6253366 | 26-Jun-2001 |
| METHOD AND SYSTEM FOR GENERATING A HIERARCHIAL DOCUMENT TYPE DEFINITION FOR DATA INTERCHANGE | 6381743 | 30-Apr-2002 |
| A META DATA DRIVEN SYSTEM AND METHOD FOR EFFECTING EXTENSIBLE DATA INTERCHANGE AMONG SOFTWARE TOOLS IN A DISTRIBUTED ENVIRONMENT | 6874146 | 29-Mar-2005 |
| IN AN OBJECT-ORIENTED REPOSITORY, A SYSTEM AND METHOD FOR REUSING EXISTING HOST-BASED APPLICATION ASSETS FOR THE DEVELOPMENT OF BUSINESS-CENTRIC APPLICATIONS | 6349404 | 19-Feb-2002 |
| A SYSTEM AND METHOD FOR CONVERTING FOR DISCOVERING HOST-BASED APPLICATION ASSETS FOR THE DEVELOPMENT OF BUSINESS-CENTRIC SOFTWARE COMPONENTS | 6782536 | 24-Aug-2004 |
| METHOD FOR IDENTIFYING UML OBJECTS IN A REPOSITORY WITH OBJECTS IN XML CONTENT | 6408311 | 18-Jun-2002 |
| A SYSTEM AND METHOD FOR CONVERTING FROM ONE MODELING LANGUAGE TO ANOTHER | 6292932 | 18-Sep-2001 |
| METHOD FOR VERSIONING A UML MODEL IN A REPOSITORY IN ACCORDANCE WITH AN UPDATED XML REPRESENTATION OF THE UML MODEL | 6330569 | 11-Dec-2001 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| METHOD AND SYSTEM FOR PROCESSING RULES USING AN EXTENSIBLE OBJECT-ORIENTED MODEL RESIDENT WITHIN A REPOSITORY | 6415275 | 02-Jul-2002 |
| METHOD FOR MAPPING CHANGES IN SYSTEM STATE TO KNOWLEDGE-BASE OBJECTS IN A PERSISTENT REPOSITORY-RESIDENT KNOWLEDGE BASE | 6535864 | 18-Mar-2003 |
| METHOD IN A COMPUTING SYSTEM FOR COMPARING XMI-BASED XML DOCUMENTS FOR IDENTICAL CONTENT | 6502112 | 31-Dec-2002 |
| METHOD AND SYSTEM FOR CREATING AND MANIPULATING EXTENSIONS TO VERSION CONTROL SYSTEMS | 6385767 | 07-May-2002 |
| SYSTEM AND METHOD FOR INCORPORATING CHANGES AS A PART OF A SOFTWARE RELEASE | 6385768 | 07-May-2002 |
| METHOD AND APPARATUS FOR AUTOMATIC EXECUTION OF CONCATENATED METHODS ACROSS MULTIPLE HETEROGENEOUS DATA SOURCES | 7007275 | 28-Feb-2006 |
| SYSTEM AND METHOD FOR ASSIGNING PROCESSES TO SPECIFIC CPU'S TO INCREASE SCALABILITY AND PERFORMANCE OF OPERATING SYSTEMS | 6658448 | 02-Dec-2003 |
| HIGH SPEED EMULATING OF ARITHMETIC OPERATIONS | 6647401 | 11-Nov-2003 |
| METHOD FOR REPRESENTING TERMINAL-BASED APPLICATIONS IN THE UNIFIED MODELING LANGUAGE ("UML") | 6550054 | 15-Apr-2003 |
| METHOD FOR COMPARING SYSTEM STATES AT DIFFERENT POINTS IN TIME | 6591377 | 08-Jul-2003 |
| METHOD FOR CONTROLLING ACCESS TO A MULTIPLICITY OF OBJECTS USING A CUSTOMIZABLE OBJECT-ORIENTED ACCESS CONTROL HOOK | 6766457 | 20-Jul-2004 |
| A METHOD FOR MAINTAINING A VERSION HISTORY OF OBJECTS IN A REPOSITORY | 6453324 | 17-Sep-2002 |
| A METHOD FOR STREAMING OBJECT MODELS THAT HAVE A PLURALITY OF VERSIONED STATES | 6625663 | 23-Sep-2003 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| MAINTAINING AVAILABILITY DURING CHANGE OF RESOURCE DYNAMIC LINK LIBRARY IN A CLUSTERED SYSTEM | 7624405 | 24-Nov-2009 |
| SYSTEM AND METHOD TO MANIPULATE LARGE OBJECTS ON ENTERPRISE SERVER DATA MANAGEMENT SYSTEM | 7467163 | 16-Dec-2008 |
| METHOD FOR ANALYZING STATUS OF SPECIALIZED TANK FILES WHICH STORE AND HANDLE LARGE OBJECTS | 7617206 | 10-Nov-2009 |
| METHOD AND APPARATUS FOR DYNAMICALLY SAVING/RESTORING THE PROPERTIES OF CONTROLS IN A SCREEN DIALOG | 6774921 | 10-Aug-2004 |
| MARSHALLING AN INTERFACE BETWEEN PROVIDER AND SERVER | 6785895 | 31-Aug-2004 |
| OLE DB DATA ACCESS SYSTEM WITH SCHEMA MODIFICATION FEATURES | 7139768 | 21-Nov-2006 |
| METHOD FOR GENERATING UNIQUE OBJECT IDENTIFIERS IN A DATA ABSTRACTION LAYER | 6947952 | 20-Sep-2005 |
| METHOD FOR MERGING VERSIONS OF A MODEL IN AN OBJECT-ORIENTED REPOSITORY | 6415299 | 07-Jul-2002 |
| DATA PROCESSING METHOD AND APPARATUS EMPLOYING OLE DB AND HAVING DUAL SCHEMA AND AUTO UPDATE FEATURES | 7016906 | 21-Mar-2006 |
| COMPUTER-IMPLEMENTED METHOD FOR GENERATING A UML REPRESENTATION FROM JAVA SOURCE | 6560769 | 06-May-2003 |
| METHOD FOR ASSIGNING A MULTIPLICITY OF INTERRUPT VECTORS IN A SYMMETRIC MULTIPROCESSOR COMPUTING ENVIRONMENT | 6738847 | 18-May-2004 |
| A METHOD FOR PROVIDING SEAMLESS FAILOVER FROM ONE SERVER TO ANOTHER SERVER CLUSTERED TOGETHER | 6857082 | 15-Feb-2005 |
| METHOD FOR CUSTOMIZING INFORMATION FOR INTERACTING WITH A VOICE MAIL SYSTEM | 6961410 | 01-Nov-2005 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| METHOD FOR CUSTOMIZING AND MANAGING INFORMATION IN A VOICE MAIL SYSTEM TO FACILITATE CALL HANDLING | 6266400 | 24-Jul-2001 |
| VOICE MAIL SYSTEM AND METHOD WITH SUBSCRIBER SELECTION OF AGENT PERSONALITIES, TELEPHONE USER INTERFACE ADDRESS BOOK AND TIME ZONE AWARENESS | 6546084 | 08-Apr-2003 |
| SYSTEM AND METHOD FOR PROVIDING VOICE MESSAGING SERVICES UTILIZING A NETWORK CONNECTION | 6442245 | 27-Aug-2002 |
| PROFILING AND SEQUENCING OPERATORS EXECUTABLE IN AN EMULATED COMPUTING SYSTEM | 8898642 | 25-Nov-2014 |
| ABSTRACTING COMPUTATIONAL INSTRUCTIONS TO IMPROVE PERFORMANCE | 8694973 | 08-Apr-2014 |
| STREAMLINED EXECUTION OF EMULATED CODE USING BLOCK-BASED TRANSLATION MODE | 8600727 | 03-Dec-2013 |
| Database Management System Enhancements | 8818948 | 26-Aug-2014 |
| DYNAMIC FIRMWARE UPDATING SYSTEM FOR USE IN TRANSLATED COMPUTING ENVIRONMENTS | 8972964 | 03-Mar-2015 |
| Automatic Workload Management Configuration Consistency Check | 9367373 | 14-Jun-2016 |
| INTERFACES FOR COMBINING CALLS IN AN EMULATED ENVIRONMENT | 8751820 | 10-Jun-2014 |
| CRYPTOGRAPHY FOR SECURE SHELL IN EMULATED ENVIRONMENTS | 8479019 | 02-Jul-2013 |
| LIMITING EXECUTION OF EVENT-RESPONSES WITH USE OF POLICIES | 8832715 | 09-Sep-2014 |
| SYNTAX LANGUAGE GENERATOR FOR COMPILER VALIDATION | 9465591 | 11-Oct-2016 |
| DATABASE AND DATA BUS ARCHITECTURE AND SYSTEMS FOR EFFICIENT DATA DISTRIBUTION | 9330147 | 03-May-2016 |
| ENHANCED SECURITY SETUP FOR MEDIA ENCRYPTION | 9317703 | 19-Apr-2016 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| AES-GCM BASED ENHANCED SECURITY SETUP FOR MEDIA ENCRYPTION | 9519757 | 13-Dec-2016 |
| METHOD OF CAPTURING A PHYSICALLY CONSISTENT MIRRORED SNAPSHOT OF AN ONLINE DATABASE | 6877016 | 05-Apr-2005 |
| METHOD FOR READING AUDIT DATA FROM A REMOTE MIRRORED DISK FOR APPLICATION TO REMOTE DATABASE BACKUP COPY | 7051052 | 23-May-2006 |
| NEW AND IMPROVED METHOD FOR EXECUTION OF PATTERN MATCHING QUERIES | 6785677 | 31-Aug-2004 |
| METHOD OF HANDLING MULTIPLE PROGRAM EXCEPTIONS ACROSS HETEROGENEOUS SYSTEMS | 6981264 | 27-Dec-2005 |
| METHOD FOR IDENTIFICATION OF VERSION LEVELS OF COMPONENTS ACROSS HETEROGENEOUS SYSTEMS WHILE ELIMINATING MIS-MATCHED VERSIONS | 7047527 | 16-May-2006 |
| FAILOVER OF A SIMULATED OPERATING SYSTEM IN A CLUSTERED COMPUTING ENVIRONMENT | 6728896 | 27-Apr-2004 |
| METHOD OF ACCESSING HIERARCHICAL DATA VIA JAVA DATABASE CONNECTIVITY | 6845376 | 18-Jan-2005 |
| METHOD OF ACCESSING OBJECT LINKING-EMBEDDING DATABASE DATA VIA JAVA DATABASE CONNECTIVITY | 7089566 | 08-Aug-2006 |
| METHOD FOR DIAGNOSING HARDWARE CONFIGURATION IN A CLUSTERED SYSTEM | 6990602 | 24-Jan-2006 |
| METHOD FOR MANAGING SCRIPT AND UTILIZING A SCRIPT UTILITY COM OBJECT | 7032211 | 18-Apr-2006 |
| SERVICING METHOD FOR SCRIPT MONITOR COM OBJECT | 7065768 | 20-Jun-2006 |
| METHOD VARIATION FOR COLLECTING STABILITY DATA FROM PROPRIETARY SYSTEMS | 7043505 | 09-May-2006 |
| METHOD FOR SCANNING WINDOWS EVENT LOGS ON A CELLULAR MULTI-PROCESSOR (CMP) SERVER | 7457991 | 25-Nov-2008 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| ANGLED BLADE METHOD OF CUTTING I/O COLUMNS | 5918516 | 06-Jul-1999 |
| METHOD OF INCREASING THE STORAGE CAPACITY OF A LEVEL FIVE RAID DISK ARRAY AND EXPANDED ARRAY PRODUCED BY SUCH METHOD | 6000010 | 07-Dec-1999 |
| ELECTRONIC BILL PRESENTMENT AND PAYMENT SYSTEM WHICH DETERS CHEATING BY EMPLOYING HASHES AND DIGITAL SIGNATURES | 6049786 | 11-Apr-2000 |
| METHOD OF TRACKING INCOMPLETE WRITES IN A DISK ARRAY AND DISK STORAGE SYSTEM WHICH PERFORMS SUCH METHOD SYSTEM AND METHOD FOR RECOGNIZING A 3-D OBJECT BY GENERATING A ROTATED 2-D IMAGE OF THE OBJECT FROM A SET OF 2-D ENROLLMENT IMAGES | 5893164 | 06-Apr-1999 |
| SYSTEM AND METHOD FOR RECOGNIZING A 3-D OBJECT BY GENERATING A 2-D IMAGE OF THE OBJECT FROM A 3-D MODEL | 6026188 | 15-Feb-2000 |
| METHOD OF GENERATING A SCALED REPLICA OF A DIGITAL INPUT IMAGE BY DISTORTING THE SPACING OF THE PIXELS IN THE INPUT IMAGE | 6002782 | 14-Dec-1999 |
| METHOD OF GENERATING A SCALED REPLICA OF A DIGITAL INPUT IMAGE BY PARTITIONING THE INPUT IMAGE INTO SEVERAL SYMMETRICAL DISTORTED SECTIONS | 6140995 | 31-Oct-2000 |
| METHOD OF GENERATING A SCALED REPLICA OF A DIGITAL INPUT IMAGE BY PARTITIONING THE INPUT IMAGE INTO SEVERAL SYMMETRICAL DISTORTED SECTIONS | 5937108 | 10-Aug-1999 |
| COMPUTER FOR EXECUTING I/O INSTRUCTIONS, BY EMULATION, IN A FOREIGN APPLICATION PROGRAM WHEREIN THE EMULATOR RESULT THREAD IS BLOCKED FROM RUNNING BETWEEN THE PROCESSES | 6128679 | 03-Oct-2000 |
| METHOD OF PROVIDING A SERVICE THROUGH A SERVER WITH A VIRTUAL SINGLE NETWORK ADDRESS APPARATUS FOR POSITIONING A CAMERA IN AN OBJECT RECOGNITION SYSTEM | 6055574 | 25-Apr-2000 |
| | 6097029 | 01-Aug-2000 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD OF COMPENSATING FOR PIXEL HISTOGRAM DISTORTION IN AN OBJECT RECOGNITION SYSTEM | 6178259 | 24-Jan-2001 |
| METHOD OF DIAGNOSING FAULTS IN AN EMULATED COMPUTER SYSTEM VIA A HETEROGENEOUS DIAGNOSTIC PROGRAM | 6141635 | 31-Oct-2000 |
| INTEGRATED CIRCUIT MODULE HAVING SPRINGY CONTACTS OF AT LEAST TWO DIFFERENT TYPES FOR REDUCED STRESS | 5967798 | 19-Oct-1999 |
| ELECTROMECHANICAL SUBASSEMBLY INCLUDING A CARRIER WITH SPRINGY CONTACTS THAT EXERT LARGE AND SMALL CONTACT FORCES | 6074219 | 13-Jun-2000 |
| METHOD OF SHARING AN I/O DEVICE BETWEEN A HOST OPERATING SYSTEM AND A FOREIGN OPERATING SYSTEM IN A SINGLE COMPUTER BY PASSING DEVICE COMMANDS THRU A SERIAL CHAIN OF LAYERED DRIVERS | 6351782 | 26-Feb-2002 |
| ESTIMATOR PROGRAM FOR ESTIMATING THE AVAILABILITY OF AN APPLICATION PROGRAM THAT RUNS IN A CLUSTER OF AT LEAST TWO COMPUTERS | 6334196 | 25-Dec-2001 |
| SCALEABLE VIDEO SYSTEM HAVING SHARED CONTROL CIRCUITS FOR SENDING MULTIPLE VIDEO STREAMS TO RESPECTIVE SETS OF VIEWERS | 6381746 | 30-Apr-2002 |
| METHOD OF TRANSMITTING STREAMS OF VIDEO DATA, IN MULTI-LENGTH FRAMES, AT A SINGLE AVERAGE BIT RATE | 6535525 | 18-Mar-2003 |
| METHOD OF SENDING DATA STRAAMS USING A REFETCHABLE FIRST-IN-FIRST-OUT MEMORY WHICH IS READ IN A SEQUENCE THAT BACKS-UP | 6535935 | 18-Mar-2003 |
| METHOD OF MOVING VIDEO DATA THRU A VIDEO-ON-DEMAND SYSTEM WHICH AVOIDS PAGING BY AN OPERATING SYSTEM | 6973666 | 06-Dec-2005 |
| MANUAL MODE METHOD OF TESTING A VIDEO SERVER FOR A VIDEO-ON-DEMAND SYSTEM | 7260827 | 21-Aug-2007 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| VIDEO-ON-DEMAND SYSTEM, WHICH BUILDS TRANSMISSION CONTROL LISTS AND USES SUCH LISTS TO SEND VIDEO DATA PACKETS WITH RESPECTIVE SUBGROUPS OF INTERNET PROTOCOL HEADERS | 7287268 | 23-Oct-2007 |
| CONTROL PROGRAM, FOR A SUPERVISOR PROCESSOR IN A VIDEO-ON-DEMAND SYSTEM, WHICH BUILDS SUBGROUPS OF INTERNET PROTOCOL HEADERS AND TRANSMISSION CONTROL LISTS | 7299486 | 20-Nov-2007 |
| CONTROL PROGRAM, FOR A CO-PROCESSOR IN A VIDEO-ON-DEMAND SYSTEM, WHICH USES TRANSMISSION CONTROL LISTS TO SEND VIDEO DATA PACKETS WITH RESPECTIVE SUBGROUPS OF INTERNET PROTOCOL HEADERS | 7299487 | 20-Nov-2007 |
| METHOD OF SEAMLESSLY REPLACING DISC-BASED VIDEO STREAMS WITH MEMORY-BASED VIDEO STREAMS IN A VIDEO-ON-DEMAND SYSTEM | 7421726 | 02-Sep-2008 |
| METHOD OF SEAMLESSLY REPLACING MEMORY-BASED VIDEO STREAMS WITH DISC-BASED VIDEO STREAMS IN A VIDEO-ON-DEMAND SYSTEM | 7681222 | 16-Mar-2010 |
| MAPPING PROCESS FOR USE IN SENDING TRICK-MODE VIDEO STREAMS WITH A HIGH PERFORMANCE | 7363647 | 22-Apr-2008 |
| DIRECTING PROCESS FOR USE IN SENDING TRICK-MODE VIDEO STREAMS WITH A HIGH PERFORMANCE | 7383565 | 03-Jun-2008 |
| COMBINING PROCESS FOR USE IN SENDING TRICK-MODE VIDEO STREAMS WITH A HIGH PERFORMANCE | 7337460 | 26-Feb-2008 |
| CONTROL PROGRAM FOR EXECUTING, VIEWING, AND EDITING ANOTHER PROGRAM THAT STIMULATES OPERATOR ACTIONS | 7162406 | 09-Jan-2007 |
| SYSTEM AND METHOD FOR RETRIEVING AND PROCESSING STABILITY DATA FROM WITHIN A SECURE ENVIRONMENT | 7523086 | 21-Apr-2009 |

| Title | Patent Number | Issue Date |
|--|--------------------|----------------------------|
| IMPROVING EMULATOR PERFORMANCE THROUGH DIRECT EXECUTION | 7506321 | 17-Mar-2009 |
| COMPUTER EMULATOR EMPLOYING DIRECT EXECUTION OF COMPILED FUNCTIONS METHOD AND SYSTEM FOR FACILITATING EXECUTION OF A USER-INPUTTED MESSAGE IN A CLIENT-SERVER DATABASE | 8196120 7058632 | 05-Jun-2012 06-Jun-2006 |
| CONVERTING LOGICAL ASPECTS OF COMMON WAREHOUSE MODEL TO DESIGN ELEMENTS FOR RELATIONAL DATABASE | 7958165 | 07-Jun-2011 |
| METHODS AND SYSTEM FOR ACCESSING LOGICAL RELATIONSHIP DATA IN A DATABASE FROM A DATA-ACCESS SYSTEM UTILIZING BOOKMARKS | 7058631 | 06-Jun-2006 |
| SYSTEM AND METHOD FOR VERIFYING VALIDITY OF TRANSMISSION DATA BASED ON A NUMERICAL IDENTIFIER FOR THE DATA | 6968498 | 22-Nov-2005 |
| METHOD FOR SPEEDING UP INFORMATION RETRIEVAL FOR DEEPLY NESTED OBJECT STORED IN THE DATABASE BY USING DIFFERING READ-WRITE GRANULARITY | 7627587 | 01-Dec-2009 |
| SELECTING PROCESSOR CONFIGURATION BASED ON THREAD USAGE IN A MULTIPROCESSOR SYSTEM | 7389506 | 17-Jun-2008 |
| DYNAMICALLY GENERATING MASKS FOR THREAD SCHEDULING IN A MULTIPROCESSOR SYSTEM | 7275249 | 25-Sep-2007 |
| METHOD AND SYSTEM FOR MANAGING DISTRIBUTION OF COMPUTER-EXECUTABLE PROGRAM THREADS BETWEEN CENTRAL PROCESSING UNITS IN A MULTI-CENTRAL PROCESSING UNIT COMPUTER SYSTEM | 7093258 | 15-Aug-2006 |
| SYSTEM AND METHOD FOR DETERMINING DEPENDENCIES BETWEEN SYSTEM RESOURCE PERFORMANCE CHARACTERISTICS | 7031879 | 18-Apr-2006 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD FOR EARLY INDICATION OF SERIALIZATION BOTTLENECKS | 7689690 | 30-Mar-2010 |
| METHODS AND SYSTEM FOR FACILITATING UPDATING OF DATA IN A DATABASE BY A DATA ACCESS SYSTEM | 7213020 | 01-May-2007 |
| METHOD TO RETRIEVE AND RECONSTITUTE MAJORITY NODE CLUSTERS | 7120821 | 10-Oct-2006 |
| UNIVERSAL MULTI-PATH DRIVER FOR STORAGE SYSTEMS | 7222348 | 22-May-2007 |
| SYSTEM AND METHOD FOR IMPROVING DATABASE REORGANIZATION TIME | 7430557 | 30-Sep-2008 |
| METHOD FOR CAPTURING A PHYSICALLY CONSISTENT MIRRORED SNAPSHOT OF AN ONLINE DATABASE FROM A REMOTE DATABASE BACKUP SYSTEM | 6957221 | 18-Oct-2005 |
| SYSTEM AND METHOD FOR AUTOMATIC AUDIT DATA ARCHIVING WITHIN A REMOTE DATABASE BACKUP SYSTEM | 7103619 | 05-Sep-2006 |
| AUTOMATIC NOTIFICATION USING SPECIFIC LOG FILE FOR ENVIRONMENTAL CONDITION VIA FTP SERVER | 7219143 | 15-May-2007 |
| REDUCING DATABASE REORGANIZATION TIME BY COLUMN MANIPULATION | 7058646 | 06-Jun-2006 |
| REDUCING DATABASE REORGANIZATION TIME METHOD SYSTEM AND COMPUTER PROGRAM | 7269595 | 11-Sep-2007 |
| PRODUCT FOR INTRACONNECT DATA COMMUNICATION USING BUFFER POOLS AND BUFFER POOL MANAGEMENT | 6064805 | 16-May-2000 |
| METHOD FOR MIGRATING OR ALTERING A MESSAGING SYSTEM (PROVISIONAL ORIGINALLY FILED BY JFO) | 6208717 | 27-Mar-2001 |
| Automated Modification of Pre-Generated MSI Packaged Applications | 9383985 | 05-Jul-2016 |
| METHOD OF KNOWLEDGE MANAGEMENT | 7003502 | 21-Feb-2006 |
| SYSTEM AND METHODOLOGY FOR ORGANIZING AND MANAGING REUSABLE SOFTWARE DEVELOPMENT PROJECT ARTIFACTS AND DOCUMENTATION | 7546575 | 09-Jun-2009 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SYSTEM AND WIRELESS DEVICE FOR PROVIDING REAL-TIME ALERTS IN RESPONSE TO CHANGES IN BUSINESS OPERATIONAL DATA | 7151438 | 19-Dec-2006 |
| SYSTEM FOR ACCESSING AND TRANSFORMING DATA, INFORMATION AND DATA RELATIONAL RULES IN A MULTI-DIMENSIONAL DATABASE | 7444342 | 28-Oct-2008 |
| PLATFORM INDEPENDENT MODEL-BASED FRAMEWORK FOR EXCHANGING INFORMATION IN THE JUSTICE SYSTEM | 7181493 | 20-Feb-2007 |
| ADJUSTING SUBLINE ADDRESS FOR BURST TRANSFER TO/FROM COMPUTER MEMORY | 7248380 | 24-Feb-2007 |
| METHOD FOR CONTROLLING HIGH SPEED DIGITAL ELECTRONIC MEMORY | 6169703 | 02-Jan-2001 |
| HIGH SPEED DIGITAL ELECTRONIC MEMORY HAVING A READ AND WRITE IN ON CYCLE | 6148385 | 14-Nov-2000 |
| MULTICOMPUTER SYSTEM | 6424988 | 23-Jul-2002 |
| TECHNIQUE TO SUPPORT PSEUDO-NAMES | 6219799 | 17-Apr-2001 |
| SERIALLY LOADABLE DIGITAL ELECTRONIC MEMORY AND METHOD OF LOADING THE SAME | 6360295 | 19-Mar-2002 |
| Method of Monitoring and Administrating Distributed Applications Using Access Large Information Chekcing Engine (ALICE) | 7814140 | 12-Oct-2010 |
| DATA COMPRESSION METHOD AND APPARATUS WITH EMBEDDED RUN-LENGTH ENCODING | 6166665 | 26-Dec-2000 |
| DATA COMPRESSION METHOD AND APPARATUS WITH EMBEDDED RUN-LENGTH ENCODING USING MATHEMATICAL RUN PROCESSING | 6137428 | 24-Oct-2000 |
| METHOD FOR PERFORMANCE TUNING A DATABASE | 8341181 | 25-Dec-2012 |
| METHOD OF TRANSFERRING HETEROGENEOUS DATA WITH MEANINGFUL INTERRELATIONSHIPS BETWEEN INCOMPATIBLE COMPUTERS | 6282576 | 28-Aug-2001 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| METHOD OF ESTABLISHING CONNECTIONS BETWEEN CLIENT AND SERVER PROGRAMS IN RESPECTIVE COMPUTERS USING AUTOMATICALLY CONSTRUCTED PIPE NAMES | 6438602 | 20-Aug-2002 |
| METHOD AND SYSTEM OF SECURING DATA OVER NETWORKS | 8386595 | 26-Feb-2013 |
| Live Migration of Virtual Machines Across Wide Area Networks | 9110727 | 18-Aug-2015 |
| RUNTIME VIRTUAL PROCESS CREATION FOR LOAD SHARING | 8832693 | 09-Sep-2014 |
| SYSTEMS AND METHODS FOR DOWNLOADING MULTIPLE FILES | 9215280 | 15-Dec-2015 |
| OPTIMIZING PARTITION PLACEMENT IN VIRTUALIZED ENVIRONMENTS | 9319285 | 19-Apr-2016 |
| The Destination Cached Routing Protocol | 9363174 | 07-Jun-2016 |
| PROTOCOL FOR BIOMETRIC DEVICE CAPTURE AND QUALITY ANALYSIS | 9213816 | 15-Dec-2015 |
| DOMAIN SCRIPTING LANGUAGE FRAMEWORK FOR SERVICE AND SYSTEM INTEGRATION | 9384020 | 05-Jul-2016 |
| SHORTCUT COMMAND BUTTON FOR A HIERARCHY TREE | D76281 | 02-Aug-2016 |
| AUTOMATED REGRESSION TEST CASE SELECTOR AND BLACK BOX TEST COVERAGE TOOL FOR PRODUCT TESTING | 9411710 | 19-Aug-2016 |
| DATA COMPRESSION METHOD AND APPARTUS UTILIZING CASCADED SUB-DICTIONARIES | 6653950 | 25-Nov-2003 |
| DATA COMPRESSION METHOD AND APPARATUS IMPLEMENTED WITH LIMITED LENGTH CHARACTER TABLES AND COMPACT STRING CODE UTILIZATION | 6570511 | 27-May-2003 |
| DATA DECOMPRESSOR FOR USE WITH A DATA COMPRESSOR IMPLEMENTED WITH LIMITED LENGHT CHARACTER TABLES AND COMPACT STRING CODES | 6466144 | 15-Oct-2002 |
| DATA COMPRESSION METHOD AND APPARUS UTILIZING CASCADED CHARACTER TABLES | 6614368 | 02-Sep-2003 |
| PREFIX TABLE IMPLEMENTED DATA COMPRESSION METHOD AND APPARATUS | 6628211 | 30-Sep-2003 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| CHARACTER TABLE IMPLEMENTED DATA DECOMPRESSION METHOD AND APPARATUS | 6650259 | 18-Nov-2003 |
| MATRIX IMPLEMENTED DATA COMPRESSION APPARATUS AND METHOD | 6608570 | 19-Aug-2003 |
| DATA COMPRESSION APPARATUS AND METHOD UTILIZING TANDEM COUPLED MATRICES | 6653949 | 25-Nov-2003 |
| LZW DATA COMPRESSION/DECOMPRESSION APPARATUS AND METHOD WITH EMBEDDED RUN-LENGTH ENCODING/DECODING | 6169499 | 02-Jan-2001 |
| LZW DATA COMPRESSION APPARATUS AND METHOD USING LOOK-AHEAD MATHEMATICAL RUN PROCESSING | 6188333 | 13-Feb-2001 |
| LZW DATA COMPRESSION APPARATUS AND METHOD USING LOOK-AHEAD MATHEMATICAL RUN PROCESSING | 6172624 | 09-Jan-2001 |
| LZW DATA COMPRESSION AND DECOMPRESSION APPARATUS AND METHOD USING GROUPED DATA CHARACTERS TO REDUCE DICTIONARY ACCESSES | 6307488 | 23-Oct-2001 |
| DATA COMPRESSION AND DECOMPRESSION METHOD AND APPARATUS WITH EMBEDDED FILTERING INFREQUENTLY ENCOUNTERED STRINGS | 6359548 | 19-Mar-2002 |
| DATA COMPRESSION AND DECOMPRESSION METHOD AND APPARATUS WITH EMBEDDED FILTERING OF DYNAMICALLY VARIABLE INFREQUENTLY ENCOUNTERED STRINGS | 6392568 | 21-May-2002 |
| CHARACTER TABLE IMPLEMENTED DATA COMPRESSION METHOD AND APPARATUS | 6426711 | 30-Jul-2002 |
| DATA COMPRESSION METHOD AND APPARATUS IMPLEMENTED WITH LIMITED LENGTH CHARACTER TABLES | 6400286 | 04-Jun-2002 |
| APPARATUS AND METHOD FOR ENHANCING CHECK SECURITY | 6600823 | 29-Jul-2003 |
| SELF-AUTHENTICATION OF VALUE DOCUMENTS USING ENCODED INDICES | 6212504 | 03-Apr-2001 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SELF-AUTHENTICATION OF VALUE DOCUMENTS USING ENCODED INDICES | 6611598 | 26-Aug-2003 |
| METHOD AND SYSTEM FOR CONVERTING HIERARCHICAL DATABASE SCHEMAS INTO RELATIONAL DATABASE SCHEMAS | 7599947 | 06-Oct-2009 |
| CONTROLLING PROCESS GROUP EXECUTION ELAPSED TIME THROUGH COMPONENT PERFORMANCE CONTROL | 7630860 | 08-Dec-2009 |
| SYSTEMS, METHODS, AND COMPUTER PROGRAMS FOR DYNAMIC BINARY TRANSLATION IN A MASTER CONTROL PROGRAM INTERPRETER | 8276128 | 25-Sep-2012 |
| SYSTEMS, METHODS, AND COMPUTER PROGRAMS FOR DYNAMIC BINARY TRANSLATION IN AN INTERPRETER | 8527969 | 03-Sep-2013 |
| METHOD AND SYSTEM FOR OFFLOADING PROCESSING TASKS TO A FOREIGN COMPUTING ENVIRONMENT | 8161494 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR CONVERTING SPEECH IN MULTIMEDIA CONTENT TO TEXT | 9332319 | 03-May-2016 |
| CLOUD COMPUTING APPLICATION SERVICES ARCHITECTURE | 8886777 | 11-Nov-2014 |
| SINGLE DEVELOPMENT TEST ENVIRONMENT | 8533676 | 10-Sep-2013 |
| SINGLE DEVELOPMENT TEST ENVIRONMENT | 8745585 | 03-Jun-2014 |
| SNOOPING DNS MESSAGES IN A SERVER HOSTING SYSTEM PROVIDING OVERLAPPING ADDRESS AND NAME SPACES | 8825839 | 02-Sep-2014 |
| Integration of IPSec into Secure Networks | 8972555 | 03-Mar-2015 |
| METHOD AND SYSTEM FOR VERIFYING THE INTEGRITY OF A DATABASE | 7343377 | 11-Mar-2008 |
| METHOD FOR IDENTIFYING SUSPECT ITEMS IN AN OUT-OF-BALANCE TRANSACTION | 6125196 | 26-Sep-2000 |
| MULTIMEDIA INTERFACE FOR A COMMUNICATIONS NETWORK | 6934278 | 23-Aug-2005 |
| TELLER/SCANNER SYSTEM AND METHOD | 6978455 | 20-Dec-2005 |
| AUTONOMOUSLY SECURED IMAGES | 6757827 | 29-Jun-2004 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| METHOD FOR CCITT COMPRESSION OF IMAGES | 6556715 | 29-Apr-2003 |
| MULTI-CHANNEL MASTER/SLAVE INTERPROCESSOR PROTOCOL | 6513070 | 28-Jan-2003 |
| APPARATUS FOR POSITIONING MAGNETICALLY CODED SUBSTRATE RELATIVE TO A MAGNETIC READ HEAD | 6394348 | 28-May-2002 |
| SELF-AUTHENTICATION OF VALUE DOCUMENTS USING DIGITAL SIGNATURES | 7051206 | 23-May-2006 |
| METHOD FOR SELECTIVE APPLICATION OF ENTERPRISE APPLICATION INTEGRATION PRACTICES | 7401011 | 15-Jul-2008 |
| DISK RECOVERY/RECONSTRUCTION | 6662307 | 09-Dec-2003 |
| ENQUEUE INSTRUCTION IN A SYSTEM ARCHITECTURE FOR IMPROVED MESSAGE PASSING AND PROCESS SYNCHRONIZATION | 6247064 | 12-Jun-2001 |
| METHOD AND APPARATUS FOR PROVIDING MODULARITY TO A BEHAVIORAL DESCRIPTION OF A CIRCUIT DESIGN | 6754879 | 22-Jun-2004 |
| PROGRAMMABLE ERROR DETECT/MASK UTILIZING BUS HISTORY STACK | 6012148 | 04-Jan-2000 |
| METHOD AND APPARATUS FOR EFFICIENTLY VIEWING A NUMBER OF SELECTED COMPONENTS USING A DATABASE EDITOR TOOL | 7076410 | 11-Jul-2006 |
| METHOD AND APPARATUS FOR SELECTIVELY VIEWING NETS WITHIN A DATABASE EDITOR TOOL | 6516456 | 04-Feb-2003 |
| COMPUTER PERFORMANCE MONITORING USING TIME-DIVISION MULTIPLEXING | 5875119 | 23-Feb-1999 |
| SERIAL SPEED-MATCHING BUFFER UTILIZING PLURALITY OF REGISTERS WHERE EACH REGISTER SELECTIVELY RECEIVES DATA FROM TRANSFERRING UNITS OR SEQUENTIALLY TRANSFERS DATA TO ANOTHER REGISTER | 5915128 | 22-Jun-1999 |
| ADDRESS CONFLICT DETECTION SYSTEM EMPLOYING ADDRESS INDIRECTION FOR USE IN A HIGH-SPEED MULTI-PROCESSOR SYSTEM | 5875472 | 23-Feb-1999 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| USER ASSISTANCE FOR HETEROGENEOUS DATA PROCESSING SYSTEMS | 6677960 | 13-Jan-2004 |
| USER ASSISTANCE FOR DATA PROCESSING SYSTEMS | 5917485 | 29-Jun-1999 |
| MULTI-PLATFORM HELPER UTILITIES | 6594689 | 15-Jul-2003 |
| CONFIGURATION PROGRAM FOR MULTI-PLATFORM HELP SYSTEMS | 6065116 | 16-May-2000 |
| MERGE JOIN PROCESS | 6185557 | 06-Feb-2001 |
| AUTOMATIC PERFORMANCE MONITOR | 6405327 | 11-Jun-2002 |
| SECONDARY SEARCH INDEX | 6266660 | 24-Jul-2001 |
| XPC BACKUP FOR IN-PROCESS AUDIT | 6079000 | 20-Jun-2000 |
| SHARED FILE ALLOCATION AND RELEASE | 6055547 | 25-Apr-2000 |
| METHOD AND APPARATUS FOR VALIDATING A SURVEY DATABASE | 7054827 | 30-May-2006 |
| METHOD AND APPARATUS FOR IDENTIFYING THE COVERAGE OF A TEST SEQUENCE IN A RULES-BASED EXPERT SYSTEM | 6125359 | 26-Sep-2000 |
| METHOD AND APPARATUS FOR DETECTING AN ENDLESS LOOP IN A RULES-BASED EXPERT SYSTEM | 6546380 | 08-Apr-2003 |
| SYSTEM AND METHOD FOR ENSURING TRANSACTION INDIVISIBILITY IN A TRANSACTION PROCESSING SYSTEM | 6161198 | 12-Dec-2000 |
| SYSTEM AND METHOD FOR MANAGING RECOVERY INFORMATION IN A TRANSACTION PROCESSING SYSTEM | 6018746 | 25-Jan-2000 |
| BALANCED INPUT/OUTPUT TASK MANAGEMENT FOR USE IN MULTIPROCESSOR TRANSACTION PROCESSING SYSTEM | 5924097 | 13-Jul-1999 |
| METHOD OF AND APPARATUS FOR BANDWIDTH CONTROL OF TRANSFERS VIA BI-DIRECTIONAL INTERFACE | 6182112 | 30-Jan-2001 |
| HIGH PERFORMANCE MODULAR MEMORY SYSTEM WITH CROSSBAR CONNECTIONS | 6480927 | 01-Nov-2002 |
| HIGH PERFORMANCE MODULAR MEMORY SYSTEM WITH CROSSBAR CONNECTIONS | 6799252 | 28-Sep-2004 |
| PROGRAMMABLE ADDRESS TRANSLATION SYSTEM | 6356991 | 12-Mar-2002 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| HIGH-SPEED MEMORY STORAGE UNIT FOR A MULTIPROCESSOR SYSTEM HAVING INTEGRATED DIRECTORY AND DATA STORAGE SUBSYSTEMS | 6415364 | 02-Jul-2002 |
| SYSTEM AND METHOD FOR PERFORMING PARALLEL INITIALIZATION AND TESTING OF MULTIPLE MEMORY BANKS AND INTERFACES IN A SHARED MEMORY MODULE | 6381715 | 30-Apr-2002 |
| DIRECTORY BASED CACHE COHERENCY SYSTEM SUPPORTING MULTIPLE INSTRUCTION PROCESSOR AND INPUT/OUTPUT CACHES | 6438659 | 20-Aug-2002 |
| DIRECTORY BASED CACHE COHERENCY SYSTEM SUPPORTING MULTIPLE INSTRUCTION PROCESSOR AND INPUT/OUTPUT CACHES | 6587931 | 01-Jul-2003 |
| SYSTEM AND METHOD FOR BYPASSING SUPERVISORY MEMORY INTERVENTION FOR DATA TRANSFERS BETWEEN DEVICES HAVING LOCAL MEMORIES | 6167489 | 26-Dec-2000 |
| SOURCE SYNCHRONOUS TRANSFER SCHEME FOR A HIGH SPEED MEMORY INTERFACE | 6199135 | 06-Mar-2001 |
| SYSTEM AND METHOD FOR INCREASING DATA TRANSFER THROUGHPUT FOR CACHE PURGE TRANSACTIONS USING MULTIPLE DATA RESPONSE INDICATORS TO MAINTAIN PROCESSOR CONSISTENCY TRANSFER REQUEST SELECTION METHOD AND APPARATUS FOR SYMMETRICAL MULTIPROCESSOR SYSTEMS | 6189078 | 13-Feb-2001 |
| SYSTEM AND METHOD FOR PROGRAMMABLY CONTROLLING DATA TRANSFER REQUEST RATES BETWEEN DATA SOURCES AND DESTINATIONS IN A DATA PROCESSING SYSTEM | 6240458 | 29-May-2001 |
| METHOD AND APPARATUS FOR SELECTIVELY DISPLAYING SIGNAL VALUES GENERATED BY A LOGIC SIMULATOR | 6510405 | 21-Jan-2003 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| MAINTENANCE SYSTEM AND INTERFACE FOR USE IN A MODULARIZED HIGH-SPEED DATA PROCESSING SYSTEM | 6243666 | 05-Jun-2001 |
| METHOD AND APPARATUS FOR SCHEDULING REQUESTS WITHIN A DATA PROCESSING SYSTEM | 6334159 | 25-Dec-2001 |
| SYSTEM FOR REDUCING THE NUMBER OF REQUESTS PRESENTED TO A MAIN MEMORY IN A MEMORY STORAGE SYSTEM EMPLOYING A DIRECTORY-BASED CACHE SCHEME | 6434641 | 13-Aug-2002 |
| SYSTEM FOR MAXIMIZING BANDPASS ON AN INTERFACE DIRECTLY COUPLING TWO UNITS WHERE THE INTERFACE HAS INDEPENDENTLY OPERATIVE DATA AND ADDRESS INTERCONNECTIONS, AND COMPUTER SYSTEM EMPLOYING SAME PROGRAMMABLE SYSTEM FOR INVALIDATING PENDING REQUESTS WITHIN A DATA PROCESSING SYSTEM | 6178466 | 23-Jan-2001 |
| MULTI-LEVEL PRIORITY CONTROL SYSTEM AND METHOD FOR MANAGING CONCURRENTLY PENDING DATA TRANSFER REQUESTS | 6401223 | 04-Jun-2002 |
| COLLECTION OF VIDEO IMAGES CORRELATED WITH SPACIAL AND ATTITUDE INFORMATION | 6260099 | 10-Jul-2001 |
| METHOD OF AND APPARATUS FOR SPEEDING UP THE EXECUTION OF NORMAL EXTENDED MODE TRANSFER INSTRUCTIONS | 6466259 | 15-Oct-2002 |
| GATEWAY FOR DYNAMICALLY PROVIDING WEB SITE STATUS INFORMATION | 6081881 | 27-Jun-2000 |
| AN AUTOMATED DEVELOPMENT SYSTEM FOR DEVELOPING APPLICATIONS THAT INTERFACE WITH BOTH DISTRIBUTED COMPONENT OBJECT MODEL (DCOM) AND ENTERPRISE SERVER ENVIRONMENTS | 6321251 | 20-Nov-2001 |
| | 6324681 | 27-Nov-2001 |

| Title | Patent Number | Issue Date |
|---|--------------------|----------------------------|
| PROVIDING A MODULAR GATEWAY ARCHITECTURE WHICH ISOLATES ATTRIBUTES OF THE CLIENT AND SERVER SYSTEMS INTO INDEPENDENT COMPONENTS VIDEO SERVER | 6212546 8245260 | 03-Apr-2001 14-Aug-2012 |
| DEVELOPMENT SYSTEM FOR AUTOMATICALLY ENABLING A SERVER APPLICATION TO EXECUTE WITH AN XATMI COMPLIANT TRANSACTION MANAGER MANAGING TRANSACTION WITHIN MULTIPLE ENVIRONMENTS | 6272675 | 07-Aug-2001 |
| SECURE TRANSACTIONS SESSIONS | 6760844 | 06-Jul-2004 |
| SYSTEM AND METHOD FOR TESTING INTERRUPT PROCESSING LOGIC WITHIN AN INSTRUCTION PROCESSOR | 6167479 | 26-Dec-2000 |
| METHOD AND SYSTEM FOR DISTRIBUTED DYNAMIC GENERATION OF GRAPHICS FILES | 6614433 | 02-Sep-2003 |
| IMPROVED SYSTEM AND METHOD FOR DETECTING FAULTS IN STORAGE DEVICE ADDRESSING LOGIC | 6457067 | 24-Sep-2002 |
| METHOD & SYSTEM FOR REMOTE DATABASE ACCESS & REPORT GENERATION & RETRIEVAL VIA THE INTERNET | 7031963 | 18-Apr-2006 |
| COOL ICE DEBUG | 6782386 | 24-Aug-2004 |
| DCOM OBJECT CONTROL CREATOR | 8543733 | 24-Sep-2013 |
| COOL ICE AUTOMATIC FOOTER TEXT ON HTML PAGES COOL ICE AVAILABILITY MESSAGE | 6662343 7386551 | 09-Dec-2003 10-Jun-2008 |
| APPARATUS AND METHOD FOR SAVING SESSION VARIABLES ON THE SERVER SIDE OF AN ON-LINE DATA BASE MANAGEMENT SYSTEM COOL ICE DATA WIZARD | 6446117 6295531 | 03-Sep-2002 25-Sep-2001 |
| AN OBJECT MANAGEMENT SYSTEM SUPPORTING THE USE OF APPLICATION DOMAIN KNOWLEDGE MAPPED TO TECHNOLOGY DOMAIN KNOWLEDGE | 6226792 | 01-May-2001 |

| Title | Patent Number | Issue Date |
|--|------------------|-------------|
| SYSTEM & METHOD FOR DEFINING AND MANAGING REUSABLE GROUPS OF SOFTWARE CONSTRUCTS WITHIN AN OBJECT MANAGEMENT SYSTEM | 6427230 | 30-Jul-2002 |
| DATA MANAGEMENT SYSTEM HAVING REMOTE TERMINAL ACCESS UTILIZING SECURITY MANAGEMENT BY TABLE PROFILING | 7062489 | 13-Jun-2006 |
| METHOD AND APPARATUS FOR INITIATING EXECUTION OF AN APPLICATION PROCESSOR IN A CLUSTERED MULTIPROCESSOR SYSTEM | 6687818 | 03-Feb-2004 |
| AN OBJECT MANAGEMENT SYSTEM SUPPORTING THE USE OF APPLICATION DOMAIN KNOWLEDGE MAPPED TO TECHNOLOGY DOMAIN KNOWLEDGE | 6453312 | 17-Sep-2002 |
| METHOD AND APPARATUS FOR ADMINISTRATION OF DATABASE PARTITIONS | 6768985 | 27-Jul-2004 |
| EVENT COUNTER | 6542985 | 01-Apr-2003 |
| WEBTX GATEWAY PREPROCESSING HOOK | 6643679 | 04-Nov-2003 |
| DATABASE BACKUP AND RECOVERY USING SEPARATE HISTORY FILES FOR DATABASE BACKUP AND AUDIT BACKUP | 6324548 | 27-Nov-2001 |
| A METHOD AND SYSTEM FOR DYNAMIC RECOMPILATION OF STATEMENTS OF A FIRST LANGUAGE EMBEDDED IN A PROGRAM HAVING STATEMENTS OF A SECOND LANGUAGE | 6496976 | 17-Dec-2002 |
| METHOD AND APPARATUS FOR REUSE OF A THREAD FOR DIFFERENT PROGRAMMED OPERATIONS | 6832376 | 14-Dec-2004 |
| COM PERSISTENCE MODEL | 7069540 | 27-Jun-2006 |
| DATA COMPRESSION/DECOMPRESSION CIRCUIT AND METHOD | 6384751 | 07-May-2002 |
| RANDOM MESSAGE VERIFICATION TECHNIQUE | 6560724 | 06-May-2003 |
| CACHE CONTROL SYSTEM FOR PERFORMING MULTIPLE OUTSTANDING OWNERSHIP REQUESTS | 6374332 | 16-Apr-2002 |

| Title | Patent Number | Issue Date |
|---|------------------|-------------|
| METHOD & APPARATUS FOR CONTROLLING MEMORY STORAGE LOCKS BASED ON CACHE LINE OWNERSHIP | 6625698 | 23-Sep-2003 |
| METHOD FOR AVOIDING DELAYS DURING SNOOP REQUESTS | 6928517 | 09-Aug-2005 |
| METHODS FOR PREDICTING CACHE MEMORY PERFORMANCE IN A PROPOSED COMPUTER | 6651153 | 18-Nov-2003 |
| METHODS FOR PREDICTING INSTRUCTION EXECUTION EFFICIENCY IN A PROPOSED COMPUTER SYSTEM | 6807522 | 19-Oct-2004 |
| METHOD FOR IMPLEMENTING COMPONENT OBJECT MODEL INTERFACES | 7120899 | 10-Oct-2006 |
| METHOD FOR ANALYZING INPUT/OUTPUT PERFORMANCE OF A DATA PROCESSING SYSTEM | 6636905 | 21-Oct-2003 |
| METHOD FOR ANALYZING INPUT/OUTPUT OPERATIONS OF A DATA PROCESSING SYSTEM | 6606671 | 02-Aug-2003 |
| METHOD FOR COMPARISON FOR COMPUTER SYSEMS AND APPARATUS THEREFOR | 6453269 | 17-Sep-2002 |
| DATABASE SIZER FOR NT SIZER SYSTEM | 6542893 | 01-Apr-2003 |
| SIZING SERVERS FOR DATABASE MANAGEMENT SYSTEMS VIA USER DEFINED WORKLOADS | 6957209 | 18-Oct-2005 |
| COMBINATION OF MASS STORAGE SIZER, COMPARATOR, OLTP USER DEFINED WORKLOAD SIZER, AND DESIGN | 6654756 | 25-Nov-2003 |
| METHOD FOR IMPROVING AUDIT TRAIL RECOVERY USING A BLOCK I.D. | 6539402 | 25-Mar-2003 |
| VIDEO-ON-DEMAND TRANSACTION SERVER METHOD OF EMULATING MULTI-PROCESSOR ENVIRONMENT | 7784079 | 24-Aug-2010 |
| METHOD OF EMULATING MULTI-PROCESSOR ENVIRONMENT | 6978233 | 20-Dec-2005 |
| QUEUE BANK REPOSITORY AND METHOD FOR SHARING LIMITED QUEUE BANKS IN MEMORY | 6944863 | 13-Sep-2005 |
| SYSTEM AND METHOD FOR PERFORMING SKILL SET ASSESSMENT USING A HIERARCHICAL MINIMUM SKILL SET DEFINITION | 6524109 | 25-Feb-2003 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SYSTEM AND METHOD FOR HANDLING AND RECOVERY IN A MULTI-PROCESSING SYSTEM HAVING HARDWARE RESOURCES SHARED BETWEEN MULTIPLE PARTITIONS | 6594785 | 15-Jul-2003 |
| METHOD AND APPARATUS FOR MOUNTING INTERRUPTS IN A CLUSTERED MULTIPROCESSOR SYSTEM | 6665761 | 16-Dec-2003 |
| SYSTEM AND METHOD FOR INCREASING CACHE HIT DETECTION PERFORMANCE | 7120836 | 10-Oct-2006 |
| METHOD AND APPARATUS FOR INCREASING COMPUTER PERFORMANCE THROUGH ASYNCHRONOUS MEMORY BLOCK INITIALIZATION | 6601153 | 29-Jul-2003 |
| METHOD AND SYSTEM FOR PERSISTING OBJECT ORIENTED DATA | 6411954 | 25-Jun-2002 |
| PIPELINE CONTROLLER FOR PROVIDING INDEPENDENT EXECUTION BETWEEN THE PRELIMINARY AND ADVANCED STAGES OF A SYNCHRONOUS PIPELINE | 7058793 | 06-Jun-2006 |
| METHOD AND APPARATUS FOR TRAVERSING AND PLACING CELLS USING A PLACEMENT TOOL | 6546532 | 08-Apr-2003 |
| METHOD AND APPARATUS FOR A WEB APPLICATION SERVER TO PROVIDE FOR WEB USE VALIDATION | 7263523 | 28-Aug-2007 |
| METHOD AND APPARATUS FOR A WEB APPLICATION SERVER TO PROVIDE AN ADMINISTRATION SYSTEM USING A DUAL SET OF TIERED GROUPS OF OBJECTS | 6704779 | 09-Mar-2004 |
| METHOD FOR CONTROLLING AND COLLECTING INFORMATION IN A DATA PROCESSING SYSTEM | 7076767 | 11-Jun-2006 |
| DATABASE MANAGEMENT SYSTEM AND METHOD FOR DATABASES HAVING LARGE OBJECTS | 6615219 | 02-Sep-2003 |
| METHOD FOR IMPROVED FIRST LEVEL CACHE COHERENCY | 7069391 | 27-Jun-2006 |
| LOCKING PARTITIONED DATABASE TABLES | 6728709 | 27-Apr-2004 |
| CACHE-LEVEL RETURN DATA BY-PASS SYSTEM FOR A HIERARCHICAL MEMORY | 6477620 | 05-Nov-2002 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SYSTEM AND METHOD FOR PROVIDING THE SPECULATIVE RETURN OF CACHED DATA WITHIN A HIERARCHICAL MEMORY SYSTEM | 6457101 | 24-Sep-2002 |
| SET TOP NETWORK PROTOCOL | 7451474 | 11-Nov-2008 |
| CORBA ACCESS TO SERVICES | 6654875 | 25-Nov-2003 |
| AUTHORIZATION KEY SYSTEM FOR SELECTIVELY CONTROLLING THE PERFORMANCE OF A DATA PROCESSING SYSTEM | 6978374 | 20-Dec-2005 |
| METHOD & SYSTEM FOR PROCESSING CONDITIONAL BRANCH INSTRUCTIONS IN A PIPELINE ARCHITECTURE | 7114063 | 26-Sep-2006 |
| SYSTEM AND METHOD FOR UTILIZING A HIERARCHICAL BITMAP STRUCTURE FOR LOCATING A SET OF CONTIGUOUS ORDERED SEARCH ITEMS HAVING A COMMON ATTRIBUTE | 6874062 | 29-Mar-2005 |
| VIDEO-ON-DEMAND VIDEO DISK/MEMORY STREAMING SELECTION METHODOLOGY | 7188357 | 06-Mar-2007 |
| METHOD AND APPARATUS FOR OPERATING A DATA PROCESSING SYSTEM | 6728764 | 27-Apr-2004 |
| METHOD & APPARATUS FOR AN OPERATING DATA PROCESSING SYSTEM USING MULTIPLE CONSOLE VIEWS | 7293075 | 06-Nov-2007 |
| GATEWAY CGI AND ACCESS CONTROL MANAGER FOR SECURE INTER-SERVER COMMUNICATIONS WITH SYSTEM AND METHOD FOR WEB SERVING USING SAME | 6941369 | 06-Sep-2005 |
| HIGH SPEED PROCESSOR INTERCONNECT TRACING COMPACTION USING SELECTABLE TRIGGERS | 7039834 | 02-May-2006 |
| COORDINATION OF MULTIPLE PROCESSOR BUS TRACINGS FOR ENABLING STUDY OF | 6763385 | 13-Jul-2004 |
| MULTIPROCESSOR MULTI-BUS COMPUTER SYSTEM PASS THROUGH XOCTET | 7111077 | 19-Sep-2006 |
| XGATE | 6993585 | 31-Jan-2006 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| IMPROVED SYSTEM AND METHOD FOR MANAGING ACCESS RIGHTS AND PRIVILEGES IN A DATA PROCESSING SYSTEM | 7219234 | 15-May-2007 |
| METHOD AND APPARATUS FOR SELECTING AND/OR CHANGING THE DISPLAY RESOLUTION OF HTML HOME PAGES IN A WEB APPLICATION DEVELOPMENT ENVIRONMENT | 6832237 | 14-Dec-2004 |
| METHOD AND APPARATUS FOR SHARING DATA STRUCTURES BETWEEN ASSEMBLY LANGUAGE PROGRAMS AND HIGH-LEVEL LANGUAGE PROGRAMS | 6968548 | 22-Nov-2005 |
| SCR AND MOSFET H-BRIDGE | 6617913 | 09-Sep-2003 |
| IMPROVED APPARATUS AND METHOD FOR ANALYZING PERFORMANCE OF A DATA PROCESSING HIGH SECURITY IDENTIFICATION SYSTEM FOR ENTRY TO MULTIPLE ZONES | 7277825 | 02-Oct-2007 |
| | 6867683 | 15-Mar-2005 |
| STEP ARCHITECTURE FOR BUILDING SERVICES | 7437377 | 14-Oct-2008 |
| STATE MANAGEMENT FOR A STEP ARCHITECTURE FAMILIAL CORRECTION WITH NON-FAMILIAL DOABLE BIT ERROR DETECTION | 7099868 | 29-Aug-2006 |
| | 7634709 | 15-Dec-2009 |
| OPERATING SYSTEM SCHEDULER/DISPATCHER WITH RANDOMIZED RESOURCE ALLOCATION AND USER MANIPULABLE WEIGHTINGS | 7058949 | 06-Jun-2006 |
| SYSTEM & METHOD FOR MANAGING INPUT/OUTPUT REQUEST USING A FAIRNESS THROTTLE | 7080174 | 18-Jul-2006 |
| BGA CONTACT REPAIR SYSTEM | 6651322 | 25-Nov-2003 |
| EMULATION OF A HIGH-SPEED, HIGH-STABILITY CLOCK | 7188060 | 06-Mar-2007 |
| SPARSE MATRIX | 7197620 | 27-Mar-2007 |
| METHOD AND APPARATUS FOR RELATIVE ADDRESS TRANSLATION | 7269825 | 11-Sep-2007 |
| INTERNET AND HMP MAPPER PRODUCTS | 7013341 | 14-Mar-2006 |
| WEBPARSE.DLL | 6915485 | 05-Jul-2005 |
| EFFICIENT TASK MANAGEMENT IN SYMMETRIC MULTI-PROCESSOR SYSTEMS | 7464380 | 09-Dec-2008 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| AUTOMATION OF COMPLEX USER-LEVEL COMMAND SEQUENCE FOR COMPUTING ARRANGEMENTS | 7092940 | 15-Aug-2006 |
| INTELLIGENT STEP PRESENTATION | 7089255 | 08-Aug-2006 |
| HIERARCHICAL AFFINITY DISPATCHER FOR TASK MANAGEMENT IN A MULTIPROCESSOR COMPUTER SYSTEM | 6996822 | 07-Feb-2006 |
| OUTBOARD CLUSTERED COMPUTER SYSTEMS MANAGER UTILIZING COMMODITY COMPONENTS | 7366765 | 29-Apr-2008 |
| STANDARD CHANNEL I/O PROCESSOR (SCIOP) CLUSTER LOCK SERVER: ABILITY TO SUPPORT MULTIPLE STANDARD AND PROPRIETARY LOCKING PROTOCOLS | 7000046 | 14-Feb-2006 |
| MANAGEMENT OF MEMORY SPACE FOR DATA FILES ACCESSIBLE TO PROGRAMS OPERATING IN DIFFERENT ADDRESSING MODES | 6499094 | 24-Dec-2002 |
| STEP TO ACCESS NATIVE SCRIPT | 7124135 | 17-Oct-2006 |
| STEP TO SAVE CURRENT TABLE FOR LATER USE | 7191167 | 13-Mar-2007 |
| XML ELEMENT TO SOURCE MAPPING TREE | 7315868 | 01-Jan-2008 |
| XML INPUT DEFINITION TABLE FOR TRANSFORMING XML DATA TO INTERNAL FORMAT | 7013306 | 14-Mar-2006 |
| XML OUTPUT DEFINITION TABLE FOR TRANSFORMING INTERNAL DATA INTO AN XML DOCUMENT | 7158967 | 02-Jan-2007 |
| CONVERTER FOR XML DOCUMENT TYPE DEFINITION TO INTERNAL XML ELEMENT MAPPING TREE | 7143104 | 28-Nov-2006 |
| METHOD FOR PROCESSING COMMUNAL LOCKS | 6986003 | 10-Jan-2006 |
| COMMUNAL LOCK PROCESSING SYSTEM FOR MULTIPROCESSOR COMPUTER SYSTEM | 6922744 | 26-Jul-2005 |
| ARBITRARY AND EXPANDABLE HIGH-PRECISION DATA TYPE & METHOD OF PROCESSING | 7237228 | 26-Jun-2007 |
| DATABASE SEARCHING USING TRAPEZE FETCH | 6970865 | 29-Nov-2005 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| USE OF A CACHE COHERENCY MECHANISM AS A DOORBELL INDICATOR FOR INPUT/OUTPUT HARDWARE QUEUES | 6785775 | 31-Aug-2004 |
| FAMILIAL CORRECTION WITH NON-FAMILIAL DOUBLE BIT ERROR DETECTION FOR DIRECTORY STORAGE | 6973612 | 06-Dec-2005 |
| COLLECTING AND PAYING MICROPAYMENTS FOR INTERNET AND WIRELESS PURCHASE OF COPYRIGHT MATERIAL | 8032412 | 04-Oct-2011 |
| EMERGENCY WEB KEYS | 7587606 | 08-Sep-2009 |
| SYSTEM & METHOD FOR PERFORMING INPUT/OUTPUT DIAGNOSTICS | 6971046 | 29-Nov-2005 |
| IMPROVED SYSTEM & METHOD FOR MODIFYING THE INSTRUCTION SET OF AN INSTRUCTION PROCESSOR | 7831807 | 07-Nov-2010 |
| AUTOMATIC COBOL WORKING STORAGE TO OPEN/OLTP VIEW CONVERSION | 8041836 | 18-Oct-2011 |
| METHOD FOR PROTECTING THE PROGRAM ENVIRONMENT FOR A MICROSOFT COMPONENT | 7363377 | 22-Apr-2008 |
| OBJECT MODEL (COM) CLIENT | 7099877 | 29-Aug-2006 |
| STEP TO DEFINE INPUTS FOR A SERVICE | 7200721 | 03-Apr-2007 |
| VERIFICATION OF CACHE COHERENCY | 7921213 | 05-Apr-2011 |
| RING CONTENT DISTRIBUTION SYSTEM | 7058665 | 06-Jun-2006 |
| VERIFICATION OF DATA COHERENCY IN WORD-ADDRESSABLE FILES THAT SUPPORT CONCURRENT ACCESS | 7146414 | 05-Dec-2006 |
| OBJECT BRIDGE FOR PROVIDING ACCESS TO OPERATIONS-LEVEL CONTROL OF A DATA PROCESSING SYSTEM | 7032133 | 18-Apr-2006 |
| METHOD & SYSTEM FOR TESTING A COMPUTER ARRANGEMENT | 7065676 | 20-Jun-2006 |
| MEMORY MANAGEMENT TEST SYSTEM | 7167955 | 23-Jan-2007 |
| SYSTEM & METHOD FOR TESTING & INITIALIZING DIRECTORY STORE MEMORY | 7093190 | 15-Aug-2006 |
| IMPROVED SYSTEM & METHOD FOR HANDLING PARITY ERRORS IN A DATA PROCESSING SYSTEM | 7188109 | 06-Mar-2007 |
| COOL ICE UTILIZATION OF DIGITAL CERTIFICATES | | |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SYSTEM AND METHOD FOR PROVIDING SPECULATIVE OWNERSHIP OF CACHED DATA BASED ON HISTORY TRACKING | 7213109 | 01-May-2007 |
| SYSTEM AND METHOD FOR ACCELERATING OWNERSHIP WITHIN A DIRECTORY BASED MEMORY SYSTEM | 6981106 | 27-Dec-2005 |
| SYSTEM AND METHOD FOR PERFORMING ERROR RECOVERY IN A DATA PROCESSING SYSTEM HAVING MULTIPLE PROCESSING PARTITIONS | 7343515 | 11-Mar-2008 |
| SYSTEM AND METHOD FOR ACCELERATING READ REQUESTS WITHIN A MULTIPROCESSOR SYSTEM | 7032079 | 18-Apr-2006 |
| SYSTEM AND METHOD FOR PERFORMING CONFLICT RESOLUTION AND FLOW CONTROL IN A MULTIPROCESSOR SYSTEM | 7047322 | 16-May-2006 |
| DATA ACCELERATION MECHANISM FOR A MULTIPROCESSOR SHARED MEMORY | 6973548 | 06-Dec-2005 |
| METHOD & APPARATUS FOR DATA TRANSFER CONTROL | 7003628 | 21-Feb-2006 |
| METHOD & APPARATUS FOR STACKED ADDRESS, BUS TO MEMORY DATA TRANSFER | 7739451 | 15-Jun-2010 |
| METHOD AND APPARATUS FOR PROVIDING OVERLAPPING DEFER PHASE RESPONSES | 7797472 | 14-Sep-2010 |
| METHOD & APPARATUS FOR MULTIPLE SEQUENCE ACCESS TO SINGLE ENTRY QUEUE | 7421545 | 02-Sep-2008 |
| METHOD & APPARATUS FOR SPAWNING MULTIPLE REQUESTS FROM A SINGLE ENTRY OF A QUEUE | 6996645 | 07-Feb-2006 |
| METHOD & APPARATUS FOR A MASKABLE HISTORY STACK | 7051131 | 23-May-2006 |
| SYSTEM AND METHOD FOR HANDLING MEMORY REQUEST IN A MULTIPROCESSOR SHARED MEMORY SYSTEM | 7222222 | 22-May-2007 |
| SYSTEM AND METHOD FOR HANDLING MEMORY REQUEST IN A MULTIPROCESSOR SHARED MEMORY SYSTEM | 7533223 | 12-May-2009 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| PROGRAMMABLE SYSTEM AND METHOD FOR ACCESSING A SHARED MEMORY | 7260677 | 21-Aug-2007 |
| APPARATUS AND METHOD FOR MERGING DATA BLOCKS WITH ERROR CORRECTION CODE PROTECTION | 7797609 | 14-Sep-2010 |
| METHOD AND APPARATUS FOR PRIORITIZED TRANSACTION QUEUING | 7631132 | 08-Dec-2009 |
| SYSTEM AND METHOD FOR DYNAMICALLY ACCESSING MEMORY WHILE UNDER NORMAL FUNCTIONAL OPERATING CONDITIONS | 7363440 | 22-Apr-2008 |
| METHOD AND APPARATUS FOR VARIABLE DELAY DATA TRANSFER | 7600143 | 06-Oct-2009 |
| IMPROVED SYSTEM AND METHOD FOR DISPLAYING ALARM STATUS | 7137074 | 14-Nov-2006 |
| DATA PRE-FETCH SYSTEM AND METHOD FOR A CACHE MEMORY | 6993630 | 31-Jan-2006 |
| DELAYED LEAKY WRITE SYSTEM AND METHOD FOR A CACHE MEMORY | 6934810 | 23-Aug-2005 |
| SYSTEM AND METHOD FOR INITIALIZING MEMORY WITHIN A DATA PROCESSING SYSTEM | 6973541 | 06-Dec-2005 |
| IMPROVED CACHE FLUSH SYSTEM AND METHOD | 6976128 | 13-Dec-2005 |
| SYSTEM AND METHOD FOR SELECTIVELY STORING BUS INFORMATION ASSOCIATED WITH MEMORY COHERENCY OPERATIONS | 7356652 | 08-Apr-2008 |
| INSTRUCTION PROCESS EMULATOR HAVING SEPARATE OPERAND AND OP-CODE INTERFACES | 7228266 | 05-Jun-2007 |
| SYSTEM & METHOD TO SUPPORT DYNAMIC PARTITIONING OF UNITS TO A SHARED | 7478025 | 13-Jan-2009 |
| IMPROVED SYSTEM AND METHOD FOR CONFIGURING A CORBA SERVER | 7376958 | 20-May-2008 |
| MECHANISM FOR IMPLEMENTING DIFFERENT TYPES OF SERVICES WITHIN THE SAME TWO-PHASE COMMIT TRANSACTION | 7644411 | 05-Jan-2010 |
| ANALYSIS OF DATA PROCESSING SYSTEM PERFORMANCE | 6970805 | 29-Nov-2005 |
| SCALABLE BANDWIDTH BUS | 6922160 | 26-Jul-2005 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| CONFIGURATION MANAGEMENT FOR AN EMULATOR OPERATING SYSTEM | 7188062 | 06-Mar-2007 |
| OPERATOR MESSAGING WITHIN AN ENVIRONMENT FOR OPERATING MULTIPLE COMPUTER | 7543027 | 02-Jun-2009 |
| CONTROL ARRANGEMENT FOR OPERATING MULTIPLE COMPUTER SYSTEMS | 7421492 | 02-Sep-2008 |
| SOFTWARE CONTROL USING THE CONTROLLER AS A COMPONENT TO ACHIEVE RESILIENCY IN A COMPUTER SYSTEM UTILIZING SEPARATE SERVERS FOR REDUNDANCY | 7149923 | 12-Dec-2006 |
| A CLUSTERED COMPUTER SYSTEM UTILIZING SEPARATE SERVERS FOR REDUNDANCY IN WHICH THE HOST COMPUTERS ARE UNAWARE OF THE USAGE OF SEPARATE SERVERS | 7155638 | 26-Dec-2006 |
| A METHOD FOR SHORTENING THE RESYNCHRONIZATION TIME FOLLOWING FAILURE IN A COMPUTER SYSTEM UTILIZING SEPARATE SERVERS FOR REDUNDANCY | 7246255 | 17-Jul-2007 |
| A METHOD FOR OBTAINING HIGHER THROUGHPUT IN A COMPUTER SYSTEM UTILIZING A CLUSTERED SYSTEMS MANAGER | 7873868 | 18-Jan-2011 |
| A METHOD FOR DISTRIBUTING THE PROCESSING AMONG MULTIPLE SYNCHRONIZATION PATHS IN A COMPUTE SYSTEM UTILIZING SEPARTE SERVERS FOR REDUNDANCY | 7181642 | 20-Feb-2007 |
| PERFORMANCE MONITOR FOR DATA PROCESSING SYSTEMS | 7373557 | 13-May-2008 |
| METHODS FOR DETECTING OVERFLOW AND/OR UNDERFLOW IN A FIXED LENGTH BINARY FIELD | 7149766 | 12-Dec-2006 |
| COMPUTER OS DISPATCHER OPERATION WITH VIRTUAL SWITCHING QUEUE AND IP QUEUES | 7167916 | 23-Jan-2007 |
| COMPUTER OS DISPATCHER OPERATION WITH USER CONTROLLABLE DEDICATION | 7159221 | 02-Jan-2007 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD FOR PROVIDING UNIFORM CONTROL OF A PIPELINE INSTRUCTION PROCESSOR | 7389407 | 17-Jun-2008 |
| AUDIT TRIAL LOGGING AND RECOVERY USING MULTIPLE AUDIT FILES | 7200777 | 03-Apr-2007 |
| SYSTEM & METHOD FOR PROVIDING AN ENHANCED ENTERPRISE STREAMING MEDIA SERVER CAPACITY & PERFORMANCE | 7260640 | 21-Aug-2007 |
| SYSTEM & METHOD FOR PROVIDING AN INTELLIGENT DATABASE ACCESS SEARCHING | 7092932 | 15-Aug-2006 |
| DYNAMIC FILE SIZE EXPANSION | 7185029 | 27-Feb-2007 |
| MEMORY CONTROLLER HAVING PROGRAMMABLE INITIALIZATION SEQUENCE | 7155579 | 26-Dec-2006 |
| STORED PROCEDURE INTERFACE | 8185542 | 22-May-2012 |
| OFFLINE EMULATED INPUT/OUTPUT PROCESSOR DEBUGGER | 7177791 | 13-Feb-2007 |
| INTERFACE FOR ACCESSING AN OPEN DISTRIBUTED TRANSACTION PROCESSING SYSTEM LOG | 7363631 | 22-Apr-2008 |
| BIDIRECTIONAL DATA STRUCTURE PROCESSING | 8019768 | 13-Sep-2011 |
| EXPOSING AN APPLICATION OBJECT MODEL TO WEB-BASED CLIENTS VIA OBJECT MODEL TRAVERSAL | 7266827 | 04-Sep-2007 |
| REMOTE BIOMETRIC VERIFICATION | 8571902 | 29-Oct-2013 |
| LOGISTICS MANAGEMENT SYSTEM PRESENTING USER INTERFACE FOR PERFORMING MULTIPLE FREIGHT MANAGEMENT TASKS | 7194695 | 20-Mar-2007 |
| LOGISTICS MANAGEMENT SYSTEM HAVING USER INTERFACE WITH CUSTOMIZABLE DATA FIELDS | 7480867 | 20-Jan-2009 |
| LOGISTICS MANAGEMENT SYSTEM HAVING TASK-ORIENTED USER INTERFACE | 7376571 | 20-May-2008 |
| LOGISTICS MANAGEMENT SYSTEM HAVING USER INTERFACE WITH TIERED DATA ENTRY | 7337411 | 26-Feb-2008 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| LOGISTICS MANAGEMENT SYSTEM USER INTERFACE HAVING DYNAMIC FORM CONFIGURATION | 7278113 | 02-Oct-2007 |
| INSTRUCTION PROCESSOR EMULATION HAVING INTER-PROCESSOR MESSAGING ACCOUNTING INSTRUCTION PROCESSOR WRITE BUFFER EMULATION USING EMBEDDED EMULATION CONTROL INSTRUCTIONS | 7222064 | 22-May-2007 |
| USER INTERFACE HAVING GRAPHICAL INDICATORS WITH AUTOMATICALLY ADJUSTED SET POINTS | 7219076 | 15-May-2007 |
| METHOD AND APPARATUS FOR COMBINING EXTENDED MARKUP LANGUAGE AND KEY/VALUE PARTS INTO THE FORMAT OF AN INTERPROCESS MESSAGE PAYLOAD | 7587719 | 08-Sep-2009 |
| EMBEDDING A SECURITY SUPPORT PROVIDER INTERFACE IN A COMMUNICATION CLASS LIBRARY | 7584504 | 01-Sep-2009 |
| METHOD AND APPARATUS FOR SYNCHRONIZING DATASET OBJECT PROPERTIES WITH UNDETRLYING DATABASE STRUCTURES | 7571197 | 04-Aug-2009 |
| SYSTEM AND METHOD FOR MAINTAINING COHERENCY WITHIN A MULTIPROCESSOR DATA PROCESSING SYSTEM | 7065614 | 20-Jun-2006 |
| PROGRAMMABLE REQUEST HANDLING SYSTEM & METHOD | 7603672 | 13-Oct-2009 |
| APPARATUS & METHOD FOR THE SIMULATION OF A LARGE MAIN MEMORY ADDRESS SPACE GIVEN LIMITED RESOURCES | 7184944 | 27-Feb-2007 |
| CACHE WITH INTEGRATED CAPABILITY TO WRITE OUT ENTIRE CACHE | 7356647 | 08-Apr-2008 |
| PROGRAMMABLE CACHE MANAGEMENT SYSTEM AND METHOD | 7496715 | 24-Feb-2009 |
| METHOD AND APPARATUS FOR SEQUENCED MESSAGE PROCESSING BETWEEN AN EVENT HANDLER AND AN ADMINISTRATIVE OBJECT | 8281319 | 02-Oct-2012 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| CARGO MANAGEMENT SYSTEM HAVING USER-SELECTABLE FILTER DEBUG OPTION | 7030779 | 18-Apr-2006 |
| SYSTEM AND METHOD FOR DETECTING AND CORRECTING ERRORS IN A CONTROL SYSTEM | 7451270 | 11-Nov-2008 |
| SYSTEM AND METHOD FOR IMPLEMENTING CODE HOOKS IN A WEB-BASED ENVIRONMENT | 7383535 | 03-Jun-2008 |
| SYSTEM & METHOD FOR SCALING PERFORMANCE OF A DATA PROCESSING SYSTEM | 7421691 | 02-Sep-2008 |
| DUAL MODE CAPABILITY FOR SYSTEM BUS | 7254657 | 07-Aug-2007 |
| METHOD AND APPARATUS FOR CHOOSING TESTS FOR SIMULATION AND ASSOCIATED ALGORITHMS AND HIERACHICAL BIPARTITE GRAPH DATA STRUCTURE | 7315973 | 01-Jan-2008 |
| ALLOCATION OF STORAGE FOR A DATABASE | 7421446 | 02-Sep-2008 |
| DATABASE MANAGEMENT SYSTEM & METHOD FOR MAINTAINING A DATABASE IN A RANGE SENSITIVE MANNER | 7599949 | 06-Oct-2009 |
| SYSTEM & METHOD FOR BUILDING A BALANCED B-TREE | 7363284 | 22-Apr-2008 |
| SYSTEM & METHOD FOR INCREASING BANDWIDTH IN A DIRECTORY BASED HIGH SPEED MEMORY SYSTEM | 7219199 | 15-May-2007 |
| CACHE APPARATUS AND METHOD FOR ACCESSES LACKING LOCALITY | 7356650 | 08-Apr-2008 |
| MEMORY BYPASS IN ACCESSING LARGE DATA OBJECTS IN A RELATIONAL DATABASE MANAGEMENT SYSTEM | 7509359 | 24-Mar-2009 |
| SYSTEM AND METHOD FOR DETECTING AND RECOVERING FROM ERRORS IN AN INSTRUCTION STREAM OF AN ELECTRONIC DATA PROCESSING SYSTEM | 7673190 | 02-Mar-2010 |
| METHODS FOR TESTING DATA INTEGRITY USING OVERLAPPED ADDRESSING BY MULTIPLE REQUESTORS | 7886205 | 08-Feb-2011 |
| NETWORK-BASED MANAGEMENT OF AIRLINE CUSTOMER DATA | 7406467 | 29-Jul-2008 |
| SYSTEM AND METHOD FOR TRANSFORMING A DATABASE STATE | 7707219 | 27-Apr-2010 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| USER INTERFACE FOR DISPLAYING A HIERARCHICAL STRUCTURE OF A COMPUTER SYSTEM | 7496594 | 24-Feb-2009 |
| REAL-TIME MANAGEMENT OF A CONFIGURATION OF A COMPUTER SYSTEM | 7475235 | 06-Jan-2009 |
| SYSTEM AND METHOD FOR CROSS-REFERENCE LINKING OF LOCAL PARTITIONED B-TREES THIRD PARTY VOTING TO SELECT A MASTER PROCESSOR WITHIN A MULTI-PROCESSOR COMPUTER | 7356549 | 08-Apr-2008 |
| SYSTEM TEST MANAGEMENT WITH AUTOMATIC TEST SELECTION | 8074109 | 06-Dec-2011 |
| MAINTAINING FILE NAME UNIQUENESS IN AN APPLICATION DEVELOPMENT ENVIRONMENT OF A COMPUTING SYSTEM | 7356432 | 08-Apr-2008 |
| SYSTEM AND METHOD FOR DETECTING AND RECOVERING FROM ERRORS IN A CONTROL STORE OF AN ELECTRONIC DATA PROCESSING SYSTEM | 8156090 | 10-Apr-2012 |
| SYSTEM AND METHOD FOR DETECTING AND RECOVERING FROM ERRORS IN A CONTROL STORE OF AN ELECTRONIC DATA PROCESSING SYSTEM | 7562263 | 14-Jul-2009 |
| DYNAMIC PRECONDITIONING OF A B+ TREE | 7941451 | 10-May-2011 |
| DYNAMIC PRECONDITIONING OF A B+ TREE | 7809759 | 05-Oct-2010 |
| FAULT ISOLATION METHOD AND SYSTEM | 7613949 | 03-Nov-2009 |
| FAULT ISOLATION METHOD AND SYSTEM | 7895471 | 22-Feb-2011 |
| DYNAMICALLY UPDATING SUBCOMPONENTS IN A TIERED REMOTE MONITORING SYSTEM | 7801989 | 21-Sep-2010 |
| REPLICATING AN OBJECT MODEL USING PORTABLE OBJECT REFERENCES | 7567992 | 28-Jul-2009 |
| METHOD AND APPARATUS FOR SERVICE PROCESSOR UPDATES | 7673023 | 02-Mar-2010 |
| INPUT/OUTPUT COMPLETION SYSTEM AND METHOD FOR A DATA PROCESSING PLATFORM | 7899958 | 01-Mar-2011 |
| INPUT/OUTPUT COMPLETION SYSTEM AND METHOD FOR A DATA PROCESSING PLATFORM | 7818478 | 19-Oct-2010 |
| MAINFRAME COMPUTING SYSTEM HAVING VIRTUAL IPMI PROTOCOL | 7764682 | 27-Jul-2010 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SECURE COMMUNICATION OVER VIRTUAL IPMB OF A MAINFRAME COMPUTING SYSTEM | 7788363 | 31-Aug-2010 |
| SYSTEM AND METHOD FOR DETECTING GLITCHES ON A HIGH-SPEED INTERFACE | 7827455 | 02-Nov-2010 |
| LOGIC CONTROLLER HAVING HARD-CODED CONTROL LOGIC AND PROGRAMMABLE OVERRIDE CONTROL STORE ENTRIES | 7895379 | 22-Feb-2011 |
| METHOD AND APPARATUS FOR SYNCHRONIZING CENTRAL PROCESSING UNITS IN A MULTIPROCESSOR APPARATUS | 7921317 | 05-Apr-2011 |
| RECORD-LEVEL LOCKING AND PAGE-LEVEL RECOVERY IN A DATABASE MANAGEMENT SYSTEM | 7966298 | 21-Jun-2011 |
| MAPPING COMMUNICATIONS PLATFORM PROPRIETARY SSL APLS ONTO OPEN SSL BASED APLS DYNAMIC UPDATING OF TRUSTED CERTIFICATES AND CRLS | 8042156 | 18-Oct-2011 |
| METHOD SYSTEM AND APPARATUS FOR SUPPORTING LIMITED ADDRESS MODE MEMORY ACCESS | 8032687 | 04-Oct-2011 |
| METHOD AND APPARATUS FOR USER-DEFINED MANAGED OBJECTS | 8516438 | 20-Aug-2013 |
| METHOD AND APPARATUS FOR UNRESTRICTED REPORTING OF ALERT STATES FOR MANAGED OBJECTS, REGARDLESS OF TYPE | 9396289 | 19-Jul-2016 |
| SYSTEM AND METHOD FOR PROVIDING A COMPUTER STANDBY NODE | 8495413 | 23-Jul-2013 |
| SYSTEM AND METHOD FOR AUTONOMOUS GENERATION OF SOFTWARE DOCUMENTATION | 8832654 | 09-Sep-2014 |
| SYSTEM AND METHOD FOR AFFINITY DISPATCHING FOR TASK MANAGEMENT IN AN EMULATED MULTIPROCESSOR ENVIRONMENT | 8661435 | 25-Feb-2014 |
| REMOTE LOGIN ARRANGEMENT FOR HETEROGENEOUS SYSTEMS USING CENTRALIZED AUTHENTICATION | 9003504 | 07-Apr-2015 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| SCRIPTED DYNAMIC DOCUMENT GENERATION | 9262185 | 16-Feb-2016 |
| FREE RESOURCES PARAMETER FOR IMPROVING PERFORMANCE OF DATABASE ALTERATIONS | 9189511 | 17-Nov-2015 |
| OPERAND AND LIMITS OPTIMIZATION FOR BINARY TRANSLATION SYSTEM | 9021454 | 28-Apr-2015 |
| DEVICE TYPE OVERRIDE | 9037817 | 19-May-2015 |
| DB ADVANCE/PARTIAL COMMIT USING A STEP ID BASED UPON UNIVERSAL TIMESTAMP | 9348700 | 24-May-2016 |
| DB PARTIAL ROLLBACK USING A STEP ID BASED UPON UNIVERSAL TIMESTAMP | 9111265 | 18-Aug-2015 |
| FAST DATA PACKET TRANSFER OPERATIONS | 8855126 | 07-Oct-2014 |
| SERVER CONTROL AUTOMATION | 8832490 | 09-Sep-2014 |
| AUTOMATED TROUBLE TICKET GENERATION SYSTEM | 8892965 | 18-Nov-2014 |
| THROTTLING FOR FAST DATA PACKET TRANSFER OPERATIONS | 8861538 | 14-Oct-2014 |
| SOCKET TABLES FOR FAST DATA PACKET TRANSFER OPERATIONS | 9094460 | 28-Jul-2015 |
| DATA EXPANSE VIEWER FOR DATABASE SYSTEMS | 9026553 | 05-May-2015 |
| POST-EXECUTION INSTRUCTION TRACING OF VIRTUALIZED INSTRUCTIONS | 9542167 | 10-Jan-2017 |
| PERFORMANCE MONITORING OF VIRTUALIZED INSTRUCTIONS | 9329883 | 03-May-2016 |
| USER SECURITY COMPARISON AND REVERSION | 9015800 | 21-Apr-2015 |
| AUTOMATED MONITORING OF SERVER CONTROL AUTOMATION COMPONENTS | 9189310 | 17-Nov-2015 |
| INSECURE CONNECTION PROHIBITION | 9380047 | 28-Jun-2016 |
| CONTROL OF SIMPLE NETWORK MANAGEMENT PROTOCOL ACTIVITY | 9038136 | 19-May-2015 |
| JUST-IN-TIME DYNAMIC TRANSLATION FOR TRANSLATION, COMPILATION, AND EXECUTION OF NON-NATIVE INSTRUCTIONS | 9201635 | 01-Dec-2015 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| DYNAMIC ON/OFF JUST-IN-TIME COMPILATION IN A DYNAMIC TRANSLATOR USING INSTRUCTION CODE TRANSLATION | 9183018 | 10-Nov-2015 |
| INVALIDATING COMPILED CODE/RECOMPILING EXISTING INSTRUCTION IN A JIT TRANSLATOR | 9529610 | 27-Dec-2016 |
| DEFINING OF AN INSTRUCTION PATH TO BE PROCESSED WITHIN A JIT TRANSLATOR/COMPILER | 9524178 | 20-Dec-2016 |
| IMPLEMENTING A JUMP INSTRUCTION IN A DYNAMIC TRANSLATOR THAT USES INSTRUCTION CODE TRANSLATION AND JUST-IN-TIME COMPILATION | 9213563 | 15-Dec-2015 |
| TRIGGERING PROCESSING OF NETWORK REQUESTS SYSTEMS AND METHODS FOR MEMORY MANAGEMENT IN A DYNAMIC TRANSLATION COMPUTER SYSTEM | 9208111 | 08-Dec-2015 |
| AVOIDING COLLISIONS IN INTERNET PROTOCOL (IP) PACKET IDENTIFICATION NUMBERS | 9462087 | 04-Oct-2016 |
| SECURED FILE SYSTEM MANAGEMENT | 9514325 | 06-Dec-2016 |
| PRINT LOGGING FOR USE WITH TERMINAL EMULATORS | 9489158 | 08-Nov-2016 |
| SYSTEMS AND METHODS FOR HANDLING COMMUNICATIONS BETWEEN NETWORK APPLICATIONS | 9454413 | 27-Sep-2016 |
| ANTI-JAM APPARATUS FOR BASEBAND RADAR SYSTEMS | 8754801 | 17-Jun-2014 |
| SPLIT LOCK OPERATION TO PROVIDE EXCLUSIVE ACCESS TO MEMORY DURING NON-ATOMIC OPERATIONS | 6092156 | 18-Jul-2000 |
| SPLIT LOCK OPERATION TO PROVIDE EXCLUSIVE ACCESS TO MEMORY DURING NON-ATOMIC OPERATIONS | 6389515 | 14-May-2002 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| COMPUTER SYSTEM AND METHOD FOR OPERATING MULTIPLE OPERATING SYSTEMS ON THE COMPUTER SYSTEM AND FOR ALLOWING THE MULTIPLE OPERATING SYSTEMS TO COMMUNICATE WITH ONE ANOTHER THROUGH SHARED MEMORY | 6314501 | 06-Nov-2001 |
| MESSAGE FLOW PROTOCOL FOR AVOIDING DEADLOCKS | 6014709 | 11-Jan-2000 |
| SCALABLE MEMORY CONTROLLER | 6006296 | 21-Dec-1999 |
| MEMORY OPTIMIZATION STATE | 6052760 | 18-Apr-2000 |
| SYSTEM AND METHOD FOR PROVIDING SPECULATIVE ARBITRATION FOR TRANSFERRING DATA | 6049845 | 11-Apr-2000 |
| MAPPING SHARED DRAM ADDRESS BITS BY ACCESSING DATA MEMOR IN A PAGE MODE AND CACHE STATUS MEMORY IN WORD MODE | 6233665 | 15-May-2001 |
| SYSTEM FOR SIMULTANEOUSLY ACESING TWO PORTIONS OF A SHARED MEMORY | 6049856 | 11-Apr-2000 |
| METHOD SYSTEM AND COMPUTER PROGRAM PRODUCT FOR PROVIDING PULL MODEL DATA COMMUNICATION | 6345296 | 05-Feb-2002 |
| METHOD SYSTEM AND COMPUTER PROGRAM PRODUCT FOR DATA COMMUNICATION USING AN INTRACONNECT ARCHITECTURE (PCT comb-ination appln. 60/037832, 08/887228, 08/887295 & 08/887296) | 6088729 | 11-Jul-2000 |
| METHOD AND APPARATUS FOR SOFTWARE FEATURES SYNCHRONIZATION BETWEEN SOFTWARE SYSTEMS | 6862615 | 01-Mar-2005 |
| METHOD AND APPARATUS FOR SOFTWARE FEATURES SYNCHRONIZATION BETWEEN SOFTWARE SYSTEMS | 6161135 | 12-Dec-2000 |
| SYSTEM AND METHOD FOR CREATING A LANGUAGE GRAMMAR | 5995918 | 30-Nov-1999 |
| ENHANCED MULTI-LINGUAL PROMPT MANAGEMENT IN A VOICE MESSAGING SYSTEM WITH SUPPORT FOR SPEECH RECOGNITION | 6058166 | 02-May-2000 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHODS AND APPARATUS FOR PROVIDING EXTERNAL ACCESS TO EXECUTABLE CALL FLOWS OF A NETWORK APPLICATION | 6483911 | 19-Nov-2002 |
| METHODS AND APPARATUS FOR TRANSFERRING MICRRORED DISK SETS DURING SYSTEM FAIL-OVER | 6167531 | 26-Dec-2000 |
| MULTI-USER APPLICATION PROGRAM TESTING TOOL SELF-AUTHENTICATION APPARATUS AND METHOD (ORIGINALLY FILED BY JFO) | 6002871 | 14-Dec-1999 |
| SHARED USE OF A NETWORK INTERFACE CARD BETWEEN HETEROGENOUS COMPUTER SYSTEMS VIRTUAL LAN INTERFACE FOR HIGH-SPEED COMMUNICATIONS BETWEEN HETEROGENEOUS COMPUTER SYSTEMS | 6289388 | 11-Sep-2001 |
| METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERSISTING OBJECTS IN A RELATIONAL DATABASE | 6473803 | 29-Oct-2002 |
| MULTIPLE LANGUAGE ELECTRONIC MAIL NOTIFICATION OF RECEIVED VOICE AND/OR FAX MESSAGES | 6418451 | 09-Jul-2002 |
| METHODS AND APPARATUS FOR TESTING COMPONENTS OF A DISTRIBUTED TRANSACTION PROCESSING SYSTEM | 6233317 | 15-May-2001 |
| METHODS AND APPARATUS FOR TESTING COMPONENTS OF A DISTRIBUTED TRANSACTION PROCESSING SYSTEM | 6243862 | 05-Jun-2001 |
| UNIVERSAL MESSAGING SYSTEM PROVIDING INTEGRATED VOICE, DATA AND FAX MESSAGING SERVICES TO PC/WEB-BASED CLIENTS, INCLUDING A SESSION MANAGER FOR MAINTAINING A SESSION BETWEEN A MESSAGING PLATFORM AND THE WEB-BASED CLIENTS | 6404762 | 11-Jun-2002 |
| UNIVERSAL MESSAGING SYSTEM PROVIDING INTEGRATED VOICE DATA AND FAX MESSAGING SERVICES TO PC/WEB-BASED CLIENTS INCLUDING A CONTENT MANAGER FOR RECEIVING INFORMATION FROM CONTENT PROVIDERS AND FORMATTING THE SAME INTO MULTIMEDIA CONTAINERS FOR DISTRIBUT | 6430177 | 06-Aug-2002 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD OF PROVISING SUBSCRIBERS IN A MESSAGING ENVIRONMENT COMPRISING TWO MESSAGING SYSTEMS | 6275570 | 14-Aug-2001 |
| HIGH PERFORMANCE DISTRIBUTED TRANSACTION PROCESSING METHODS AND APPARATUS | 6141679 | 31-Oct-2000 |
| ENHANCED LOCAL AREA NETWORK PROTOCOLS (ATM LANE/DTCM) | 6757744 | 29-Jun-2004 |
| ENHANCED LOCAL AREA NETWORK PROTOCOLS (ATM LANE/DTCM) | 6810431 | 26-Oct-2004 |
| METHODS AND APPARATUS FOR ENABLING A COMPONENT IN A FIRST TRANSACTION PROCESSING ENVIRONMENT TO ACCESS A RESOURCE IN ANOTHER ENVIRONMENT THAT IS UNDER THE CONTROL OF AN XATMI-COMPLIANT TRANSACTION MANAGER | 6157927 | 05-Dec-2000 |
| MULTIPLE NODE MESSAGING SYSTEM WHEREIN NODES HAVE SHARED ACCESS TO MESSAGE STORES OF OTHER NODES | 6504915 | 07-Jan-2003 |
| SYSTEM AND METHOD FOR INTEGRATING NOTIFICATION FUNCTIONS OF TWO MESSAGING SYSTEMS IN A UNIVERSAL MESSAGING SYSTEM | 6317485 | 13-Nov-2001 |
| APHASIA THERAPY SYSTEM | 7203649 | 10-Apr-2007 |
| SYSTEM FOR SYNTHESIZING SPOKEN MESSAGES STACKED CIRCUIT BOARD ASSEMBLY ADAPTED FOR HEAT DISSIPATION | 6068485 | 30-May-2000 |
| HEAT DISSIPATION | 5986887 | 16-Nov-1999 |
| STACKABLE HIGH DENSITY RAM MODULES | 6049467 | 11-Apr-2000 |
| METHODS AND APPARATUS FOR REMOTE DISPLAY OF HOST SCREENS IN A MULTIPROCESSOR SYSTEM HAVING MULTIPLE OPERATING SYSTEMS EXECUTING IN SEPARATE PARTITIONS THEREIN | 6732067 | 04-May-2004 |
| MEZZANINE CONNECTOR ASSEMBLY | 5903439 | 11-May-1999 |
| INTEGRATED BLOCK CHECKING SYSTEM FOR RAPID FILE TRANSFER OF COMPRESSED DATA | 6711709 | 23-Mar-2004 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| A SYSTEM FOR HIGH SPEED CONTINUOUS FILE TRANSFER PROCESSING OF DATA FILES | 6401133 | 04-Jun-2002 |
| METHOD AND SYSTEM FOR MAINTAINING THE FORMAT OF MESSAGES IN A MESSAGING SYSTEM DATABASE | 6148329 | 14-Nov-2000 |
| A VIRTUAL TRANSPORT LAYER INTERFACE AND MESSAGING SUBSYSTEM FOR HIGH-SPEED COMMUNICATIONS BETWEEN HETEROGENEOUS COMPUTER SYSTEMS | 6233619 | 15-May-2001 |
| METHOD AND COMPUTER PROGRAM PRODUCT FOR EVALUATING THE PERFORMANCE OF AN OBJECT-ORIENTED APPLICATION PROGRAM | 6269479 | 31-Jul-2001 |
| VOICE MESSAGING SYSTEM WITH ENHANCED CUSTOMIZABILITY | 7769147 | 03-Aug-2010 |
| METHOD AND APPARATUS FOR DETERMINING THE DESTINATION OF A DYNAMIC BRANCH | 6662354 | 09-Dec-2003 |
| APPARATUS FOR THE DESIGN AND SIMULATION OF DIALOGS | 6321198 | 20-Nov-2001 |
| INTER-SYSTEM CALL TRANSFER | 6396909 | 28-May-2002 |
| SYSTEM AND METHOD FOR EMULATING NETWORK COMMUNICATIONS BETWEEN PARTITIONS OF A COMPUTER SYSTEM | 7571440 | 04-Aug-2009 |
| METHOD, APPARATUS, AND COMPUTER PROGRAM FOR PRODUCT FOR REDUCING THE LOAD ON A TEXT-TO-SPEECH CONVERTER IN A MESSAGING SYSTEM CAPABLE OF TEXT-TO-SPEECH CONVERSION OF E-MAIL DOCUMENTS | 6600814 | 29-Jul-2003 |
| SYSTEM, COMPUTER PROGRAM PRODUCTS, AND METHODS FOR EMULATION OF COMPUTER PROGRAMS | 7058932 | 06-Jun-2006 |
| MODULAR PACKAGING CONFIGURATION AND SYSTEM AND METHOD OF USE FOR A COMPUTER SYSTEM ADAPTED FOR OPERATING MULTIPLE OPERATING SYSTEMS IN DIFFERENT PARTITIONS | 6324062 | 27-Nov-2001 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| MODULAR PACKAGING CONFIGURATION AND SYSTEM AND METHOD OF USE FOR A COMPUTER SYSTEM ADAPTED FOR OPERATING MULTIPLE OPERATING SYSTEMS IN DIFFERENT PARTITIONS | 6970348 | 29-Nov-2005 |
| FASTENER ASSEMBLY FOR PIVOTAL ENGAGEMENT OF ADJACENT COMPONENTS | 6607328 | 19-Aug-2003 |
| REMOTE COMPUTER SYSTEM MONITORING AND DIAGNOSTIC BOARD | 6697962 | 24-Feb-2004 |
| SPLIT DATA PATH DISTRIBUTED NETWORK PROTOCOL | 6345301 | 05-Feb-2002 |
| DESIGN METHODOLOGY FOR INTERACTIVE SPEECH RECOGNITION SYSTEMS | 6823313 | 23-Nov-2004 |
| INFORMATION REPORTING FOR NETWORK COMMUNICATIONS | 6775696 | 10-Aug-2004 |
| METHOD AND APPARATUS FOR PREVENTING HUNG CALLS DURING PROTOCOL VIOLATIONS IN A VOICE MESSAGING SYSTEM | 6608887 | 19-Aug-2003 |
| METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR REPLACING A DYNAMIC LINK LIBRARY (DLL) OF A FIRST COMPUTING ENVIRONMENT WITH A DLL OF A SECOND COMPUTING ENVIRONMENT THAT CAN BE INVOKED FROM THE FIRST COMPUTING ENVIRONMENT IN A TRANSPARENT MANNER | 6442752 | 27-Aug-2002 |
| HIGH SPEED DATA COMPRESSION SYSTEM | 6320523 | 20-Nov-2001 |
| PRINTED CIRCUIT BOARD ROUTING TECHNIQUE | 6256769 | 03-Jul-2001 |
| AUTOGNOMIC DECISION MAKING SYSTEM AND METHOD | 6505184 | 07-Jan-2003 |
| SEMIOTIC DECISION MAKING SYSTEM USED FOR RESPONDING TO NATURAL LANGUAGE QUERIES AND OTHER PURPOSES AND COMPONENTS THEREOF | 6275817 | 14-Aug-2001 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| DATA PROCESSING METHOD FOR A SEMIOTIC DECISION MAKING SYSTEM USED FOR RESPONDING TO NATURAL LANGUAGE QUERIES AND OTHER PURPOSES | 6278987 | 21-Aug-2001 |
| METHOD FOR CONTROLLING CONCURRENT CACHE REPLACE AND RETURN ACROSS AN ASYNCHRONOUS INTERFACE | 6560675 | 06-May-2003 |
| METHOD FOR LIMITING ORIGINAL DATA IN CACHE OF MULTIPROCESSOR SYSTEM | 6415357 | 02-Jul-2002 |
| METHOD AND APPARATUS FOR PREVENTING STALLING OF CACHE READS DURING RETURN OF MULTIPLE DATA WORDS | 6473834 | 29-Oct-2002 |
| APPARATUS AND METHOD FOR SOLDERING | 6123251 | 26-Sep-2000 |
| METHOD, SYSTEM, AND APPARATUS FOR PROVIDING USER CUSTOMIZABLE WEB PORTAL SERVICES | 7475346 | 06-Jan-2009 |
| VIRTUAL FILE SYSTEM AND METHOD | 6895591 | 17-May-2005 |
| ARCHITECTURE FOR A READ/WRITE THREAD LOCK | 7188344 | 06-Mar-2007 |
| METHOD AND APPARATUS FOR REDUCING THE TIME REQUIRED FOR DECOMPRESSING A COMPRESSED DATA STREAM | 6404362 | 11-Jun-2002 |
| METHOD AND APPARATUS FOR REDUCING REDUNDANT MULTIPLE RECIPIENT MESSAGE HANDLING IN A MESSAGE HANDLING SYSTEM | 6609156 | 10-Aug-2003 |
| METHOD FOR ENHANCED DISK I/O IN AN EMULATED COMPUTING ENVIRONMENT | 6587897 | 01-Jul-2003 |
| SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR AIRPORT EQUIPMENT INFORMATION AND EXCHANGE | 6449600 | 10-Sep-2002 |
| SYSTEM AND METHOD FOR STORING AND ACCESSING DATA IN AN INTERLOCKING TREES DATASTORE | 6961733 | 01-Nov-2005 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD FOR STORING AND ACCESSING DATA IN AN INTERLOCKING TREES DATASTORE | 7788287 | 31-Aug-2010 |
| SYSTEM AND METHOD FOR STORING AND ACCESSING DATA IN AN INTERLOCKING TREES DATASTORE | 7424480 | 09-Sep-2008 |
| SYSTEM AND METHOD FOR STORING AND ACCESSING DATA IN AN INTERLOCKING TREES DATASTORE | 7158975 | 02-Jan-2007 |
| METHOD AND APPARATUS FOR REWORKING A CIRCUIT CONTAINING AN LGA DEVICE | 6540527 | 01-Apr-2003 |
| METHOD AND APPARATUS FOR HEAT DISSIPATION IN A MULTI-PROCESSOR MODULE | 6288899 | 11-Sep-2001 |
| METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ESTABLISHING COMMUNICATIONS BETWEEN AN ADAPTER CARD AND A HOST PROCESSOR RUNNING IN A BIOS SUPPORTED ENVIRONMENT | 6760785 | 06-Jul-2004 |
| SYSTEM, METHOD, AND ADAPTER CARD FOR REMOTE CONSOLE EMULATION INCLUDING REMOTE CONTROL OF A PERIPHERAL DEVICE | 6560641 | 06-May-2003 |
| CODE TYPE CONTROL OF CACHING PARAMETERS METHOD AND APPARATUS FOR ENSURING DATA INTEGRITY | 6801883 | 05-Oct-2004 |
| NETWORK INTERFACE UNIT HAVING AN EMBEDDED SERVICES PROCESSOR | 6505307 | 07-Jan-2003 |
| ADJUNCT PROCESSING OF MULTI-MEDIA FUNCTIONS IN A UNIVERSAL MESSAGING SYSTEM | 7116764 | 03-Oct-2006 |
| WEB STREAMING IN A MESSAGING SYSTEM | 7327832 | 05-Feb-2008 |
| DISTRIBUTED NETWORK APPLICATIONS PLATFORM ARCHITECTURE | 7165114 | 16-Jan-2007 |
| SYSTEM AND METHOD FOR DETERMINING NUMBER OF VOICE PROCESSING ENGINES CAPABLE OF SUPPORT ON A DATA PROCESSING SYSTEM | 7095828 | 22-Aug-2006 |
| SYSTEM AND METHOD FOR DETERMINING NUMBER OF VOICE PROCESSING ENGINES CAPABLE OF SUPPORT ON A DATA PROCESSING SYSTEM | 6678354 | 13-Jan-2004 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD FOR GENDER IDENTIFICATION IN A SPEECH APPLICATION ENVIRONMENT | H002187 | 03-Apr-2007 |
| DIALOG FLOW INTERPRETER DEVELOPMENT TOOL | 7024348 | 04-Apr-2006 |
| DIALOG FLOW INTERPRETER DEVELOPMENT TOOL | 7389213 | 17-Jun-2008 |
| SYSTEM AND METHOD FOR SOFTWARE CONTROLLED CACHE LINE AFFINITY ENHANCEMENTS | 6640289 | 28-Oct-2003 |
| MECHANISM FOR CONTINUABLE CALLS TO PARTIALLY TRAVERSE A DYNAMIC GENERAL TREE | 6978271 | 20-Dec-2005 |
| SYSTEM AND METHOD FOR ACCESSING VOICE MESSAGING SYSTEM DATA | 6947969 | 20-Sep-2005 |
| MODULAR COMPUTER SYSTEM AND LATCHING HANDLE FOR SAME | 6665908 | 23-Dec-2003 |
| HARDWARE-BASED, LZW DATA COMPRESSION CO-PROCESSOR | 6624762 | 23-Sep-2003 |
| ASSEMBLY AND METHOD FOR RETAINING CIRCUIT BOARD ASSEMBLY COMPONENTS | 6617523 | 09-Sep-2003 |
| SYSTEMS AND METHODS FOR MAINTAINING ISOLATED ENVIRONMENTS | 6973590 | 06-Dec-2005 |
| SYSTEM AND METHOD FOR USING ANONYMOUS TOKENS FOR EFFICIENT MEMORY MANAGMENT ADMINISTRATION TOOL FOR SUPPORTING INFORMATION TECHNOLOGY (IT) SYSTEM MIGRATIONS | 6874059 | 29-Mar-2005 |
| COMPUTER-AIDED DESIGN (CAD) TOOL | 6751301 | 15-Jun-2004 |
| DIALOG RECOVERY AND ACKNOWLEDGEMENT ACCUMULATION IN A MULTI-COMPUTER SYSTEM | 8312117 | 13-Nov-2012 |
| DISK VOLUME VIRTUALIZATION BLOCK-LEVEL CACHING | 6957294 | 18-Oct-2005 |
| SYSTEM AND METHOD OF DETERMINING RING OSCILLATOR SPEED | 6657504 | 02-Dec-2003 |
| CLOSE-OFF FOR USE WITH AN EQUIPMENT RACK IDENTIFYING SPECIFIC NETLISTS FOR USE IN CODE COVERAGE TESTING | 6601932 | 05-Aug-2003 |
| | 7117458 | 03-Oct-2006 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| FINDING UNEXERCISED LOGIC FOR USE IN CODE COVERAGE TESTING | 7292970 | 06-Nov-2007 |
| MAINTENANCEINTERFACE UNIT FOR SERVICING MULTIPROCESSOR SYSTEMS | 7210070 | 24-Apr-2007 |
| HARDWARE-IMPLEMENTED LZW DATA DECOMPRESSION | 7071854 | 04-Jul-2006 |
| FRONT PANEL FOR A COMPUTER SYSTEM ENCLOSURE | D490436 | 25-May-2004 |
| FORCING A MEMORY DUMP FOR COMPUTER SYSTEM DIAGNOSIS | 7290175 | 30-Oct-2007 |
| SYSTEM FOR SUPPORT OF REMOTE CONSOLE BY EMULATION OF LOCAL CONSOLE | 7287099 | 23-Oct-2007 |
| PCB COMPONENT PLACEMENT AND TRACE ROUTING THEREBETWEEN | 6818838 | 16-Nov-2004 |
| COMPUTER SYSTEM SCALABLE PROCESSOR ASSEMBLY THEREFOR | 7079386 | 18-Jul-2006 |
| METHOD AND SYSTEM FOR EXCHANGING DATA BETWEEN A CENTRAL PROCESSING UNIT AND AN INPUT/OUTPUT PROCESSOR | 7234008 | 19-Jun-2007 |
| METHOD AND SYSTEM FOR EXCHANGING DATA BETWEEN A CENTRAL PROCESSING UNIT AND AN INPUT/OUTPUT PROCESSOR | 7694043 | 06-Apr-2010 |
| SYSTEMS AND METHODS FOR MANAGING AND BUILDING DIRECTED DIALOGUE PORTAL APPLICATIONS | 7395206 | 01-Jul-2008 |
| TEST APPARATUS TO FACILITATE BUILDING AND TESTING COMPLEX COMPUTER PRODUCTS WITH CONTRACT MANUFACTURERS WITHOUT PROPRIETARY INFORMATION | 7139949 | 21-Nov-2006 |
| USING CONVERSION OF HIGH LEVEL DESCRIPTIVE HARDWARE LANGUAGE INTO LOW LEVEL TESTING LANGUAGE FORMAT FOR BUILDING AND TESTING COMPLEX COMPUTER PRODUCTS WITH CONTRACT MANUFACTURERS WITHOUT PROPRIETARY INFORMATION | 6941243 | 06-Sep-2005 |
| DATA RECORDING ON DIGITAL MEDIA USING DIRECTION AND POSITION OF RECORDING FOR COMPRESSION OF RECORDED DATA | 6888478 | 03-May-2005 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD FOR MOUNTING A COMPUTER COMPONENT | 7198241 | 03-Apr-2007 |
| APPARATUS AND METHOD FOR EMI SHIELDING SPACE-SAVING MOUNTING TABLE FOR USE WITH AN EQUIPMENT RACK | 7054166 | 30-May-2006 |
| RELEASABLE ELECTRICAL CONNECTOR FOR USE WITH CIRCUIT CARDS | 7296523 | 20-Nov-2007 |
| | 6942512 | 13-Sep-2005 |
| COMPUTER SYSTEM PARA-VIRTUALIZATION USING A HYPERVISOR THAT IS IMPLEMENTED IN A PARTITION OF THE HOST SYSTEM | 7984108 | 19-Jul-2011 |
| VIRTUAL DATA CENTER THAT ALLOCATES AND MANAGES SYSTEM RESOURCES ACROSS MULTIPLE NODES | 7725559 | 25-May-2010 |
| METHODS AND APPARATUS FOR GROUPING ELEMENTS OF ELEMENT PAIRS INTO ELEMENT SETS | 7343363 | 11-Mar-2008 |
| FUNCTIONAL OPERATIONS FOR ACCESSING AND/OR BUILDING INTERLOCKING TREES DATASTORES TO ENABLE THEIR USE WITH APPLICATIONS SOFTWARE | 7593923 | 22-Sep-2009 |
| INTELLIGENT NETWORK INTERFACE CARD (NIC) OPTIMIZATIONS | 7581033 | 25-Aug-2009 |
| METHODS AND APPARATUS FOR ALLOCATING ACCESS TO A HOST DEVICE BUFFER | 7650443 | 19-Jan-2010 |
| SYSTEM AND METHOD FOR GUARANTEEING TRANSACTIONAL FAIRNESS AMONG MULTIPLE REQUESTERS | 7325082 | 29-Jan-2008 |
| SYSTEM AND METHOD FOR MAINTAINING A CONSTANT PROCESSOR SERVICE LEVEL IN A COMPUTER | 7734952 | 08-Jun-2010 |
| METHOD AND APPARATUS TO DIAGNOSE SOFTWARE USAGE METERING SYSTEM | 7278058 | 02-Oct-2007 |
| | 7908606 | 15-Mar-2011 |
| FACILITATED USE OF COLUMN AND FIELD DATA FOR FIELD RECORD UNIVERSE IN A KNOWLEDGE STORE | 7908240 | 15-Mar-2011 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| STORING THE REPOSITORY ORIGIN OF DATA INPUTS WITHIN A KNOWLEDGE STORE | 7716241 | 11-May-2010 |
| ADDING AND SUBTRACTING KSTORES | 8010569 | 30-Aug-2011 |
| METHOD FOR REDUCING THE SCOPE OF THE K NODE CONSTRUCTION LOCK | 7418445 | 26-Aug-2008 |
| SAVING AND RESTORING AN INTERLOCKING TREES DATASTORE | 7213041 | 01-May-2007 |
| SYSTEMS AND METHODS FOR GENERATING AND EVALUATING HIGH-FREQUENCY LOW VOLTAGE SWING AT IN-CIRCUIT TESTING | 7394275 | 01-Jul-2008 |
| SPECIFYING AN OPERATING SYSTEM LEVEL TO USE AFTER REBOOT | 7543168 | 02-Jun-2009 |
| DISTRIBUTED SECURITY OVER MULTIPLE INDEPENDENT NETWORKS USING SECURE "PARSING" TECHNOLOGY | 9172685 | 27-Oct-2015 |
| COMPUTER CARD ADAPTOR | 7281953 | 16-Oct-2007 |
| DYNAMIC DISTRIBUTION OF I/O RESOURCES IN A PARTITIONED COMPUTER SYSTEM | 7657675 | 02-Feb-2010 |
| DATA AGGREGATION USER INTERFACE AND ANALYTIC ADAPTED FOR A KSTORE | 7389301 | 17-Jun-2008 |
| PRINTED-CIRCUIT IMPEDANCE CONTROL USING SKEWED REFERENCE MESH | 7504904 | 17-Mar-2009 |
| SYSTEM AND METHODS FOR DETERMINATION OF INDEPENDENCE OF SUB-GRAPHS IN A GRAPH-BASED INTERMEDIATE REPRESENTATION OF PROGRAM INSTRUCTIONS | 7743370 | 22-Jun-2010 |
| OPTIMIZING THE SIZE OF AN INTERLOCKING TREE DATASTORE STRUCTURE FOR KSTORE | 7689571 | 30-Mar-2010 |
| UTILITIES FOR DERIVING VALUES AND INFORMATION FROM WITHIN AN INTERLOCKING TREES DATA STORE | 7676477 | 09-Mar-2010 |
| SINGLE AXIS INSERTION HOT SWAP PCIE ADAPTER SYSTEM AND METHOD FOR PROVIDING AN INLINE DATA CONVERSION FOR MULTIPLEXED DATA | 7394652 | 01-Jul-2008 |
| STREAMS. | 7870316 | 11-Jan-2011 |

| Title | Patent Number | Issue Date |
|---|---------------|-------------|
| METHOD FOR PROCESSING SENSOR DATA WITHIN A PARTICLE STREAM BY A KSTORE | 7734571 | 08-Jun-2010 |
| METHOD FOR PROCESSING K NODE COUNT FIELDS USING AN INTENSITY VARIABLE | 8516004 | 20-Aug-2013 |
| UNCORRECTABLE DATA ERROR CONTAINMENT SYSTEMS AND METHODS | 7774638 | 10-Aug-2010 |
| LINE SPEED SEQUENTIAL TRANSACTION PACKET PROCESSING | 8984193 | 17-Mar-2015 |
| METHOD FOR PROCESSING A PARTICLE USING A SENSOR STRUCTURE | 7676330 | 09-Mar-2010 |
| METHOD FOR DETERMINING A MOST PROBABLE K LOCATION | 8238351 | 07-Aug-2012 |
| MECHANISM TO VIRTUALIZE A PERPETUAL, UNIQUE SYSTEM IDENTITY FOR A PARTITIONED COMPUTER SYSTEM | 8769703 | 01-Jul-2014 |
| MEMORY MODULE ADAPTER | 7652872 | 26-Jan-2010 |
| ELECTRICAL POWER STRIP PLUG RETENTION | 7455546 | 25-Nov-2008 |
| KSTORE SIMULATOR SCENARIO PROCESSOR AND XML FILE FORMAT | 8010572 | 30-Aug-2011 |
| KSTORE DATA SIMULATOR DIRECTIVES AND VALUES PROCESSOR PROCESS AND FILES | 8250116 | 21-Aug-2012 |
| METHOD AND APPARATUS FOR IMPROVING THE PERFORMANCE OF OBJECT-ORIENTED QUEUES | 8131772 | 06-Mar-2012 |
| BLOCK-LEVEL DATA STORAGE USING AN OUTSTANDING WRITE LIST | 8386798 | 26-Feb-2013 |
| Storage Availability Using Cryptographic Splitting | 8135980 | 13-Mar-2012 |
| STORAGE AVAILABILITY USING CRYPTOGRAPHIC SPLITTING | 8719594 | 06-May-2014 |
| STORAGE SECURITY USING CRYPTOGRAPHIC SPLITTING | 8392682 | 05-Mar-2013 |
| BLOCK LEVEL DATA STORAGE SECURITY SYSTEM | 9384149 | 05-Jul-2016 |
| CABLE RETENTION CLIP | 7744399 | 29-Jun-2010 |
| LOAD BALANCING AND FAILOVER OF GATEWAY DEVICES | 8341722 | 25-Dec-2012 |
| LOAD BALANCING AND FAILOVER OF GATEWAY DEVICES | 8832819 | 09-Sep-2014 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEM AND METHOD FOR PROVIDING L2 CACHE CONFLICT AVOIDANCE | 8375171 | 12-Feb-2013 |
| METHOD FOR THE FILE SYSTEM OF FIGURE 7 FOR THE CLUSTER | 8661286 | 25-Feb-2014 |
| METHODS AND SYSTEMS FOR MANAGING CONCURRENT UNSECURED AND CRYPTOGRAPHICALLY SECURE COMMUNICATIONS ACROSS UNSECURED NETWORKS | 9525666 | 20-Dec-2016 |
| SOFTWARE HANDLING OF HARDWARE ERROR HANDLING IN HYPERVISOR-BASED SYSTEMS | 9026865 | 05-May-2015 |
| WEB-BASED CONFERENCE COLLABORATION TOOL WITH DYNAMIC CONTENT AND ROLES | 8813196 | 19-Aug-2014 |
| A METHOD OF ORGANIZING A DATABASE ACCORDING TO AN EVENT FOR A WEB-BASED CONFERENCE COLLABORATION TOOL WITH DYNAMIC CONTENT AND ROLES | 9449305 | 20-Sep-2016 |
| A MASTER VIEW CONTROLLER FOR A WEB-BASED CONFERENCE COMPANION TOOL | 9349119 | 24-May-2016 |
| A MASTER NAVIGATION CONTROLLER FOR A WEB-BASED CONFERENCE COLLABORATION TOOL DYNAMIC LICENSING | 9524491 | 20-Dec-2016 |
| SYSTEM AND METHOD OF CAPACITY MANAGEMENT AN OPERATING SYSTEM IN A COMMODITY-BASED COMPUTING SYSTEM | 9311117 | 12-Apr-2016 |
| AN IMPROVED TECHNIQUE FOR DEPLOYING OPERATING SYSTEMS IN A VIRTUALIZED ENVIRONMENT | 9483289 | 01-Nov-2016 |
| AN IMPROVED TECHNIQUE FOR DEPLOYING OPERATING SYSTEMS IN A VIRTUALIZED ENVIRONMENT | 9141400 | 22-Sep-2015 |
| INTERCONNECT PARTITION BINDING API, ALLOCATION AND MANAGEMENT OF APPLICATION-SPECIFIC PARTITIONS | 9519795 | 13-Dec-2016 |
| CONNECTIVITY SERVICES APPLICATION PROGRAMMING INTERFACE | 9215227 | 15-Dec-2015 |
| SENSITIVE DATA FILE ATTRIBUTE | 9411513 | 19-Aug-2016 |
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 9380083 | 28-Jun-2016 |

| Title | Patent Number | Issue Date |
|--|---------------|-------------|
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 9386049 | 05-Jul-2016 |
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 9392034 | 12-Jul-2016 |
| SERVICE PARTITION VIRTUALIZATION SYSTEM AND METHOD HAVING A SECURE APPLICATION | 9483639 | 01-Nov-2016 |
| SECURE INTEGRATION OF HYBRID CLOUDS WITH ENTERPRISE NETWORKS | 9294443 | 22-Mar-2016 |
| DYNAMIC ALLOCATION AND ASSIGNMENT OF VIRTUAL FUNCTIONS WITHIN FABRIC | 9384060 | 05-Jul-2016 |
| MOBILE ISSUANCE OF OFFICIAL DOCUMENTS WITH BIOMETRIC INFORMATION ENCODED THEREON | 7561183 | 14-Jul-2009 |
| BIOINDEX MECHANISM FOR INCREASING THE RELATIVE SPEED OF BIOMETRIC IDENTIFICATON AGAINST LARGE POPULATION SAMPLES | 7474769 | 06-Jan-2009 |
| APPARATUS AND METHOD FOR DETECTION AND ANALYSIS OF IMAGERY | 7813547 | 12-Oct-2010 |
| DETERMINATION OF GRAPH CONNECTIVITY METRICS USING BIT-VECTORS | 7672919 | 02-Mar-2010 |
| DETERMINATION OF GRAPH CONNECTIVITY METRICS USING BIT-VECTORS | 8145588 | 27-Mar-2012 |
| METHODS AND APPARATUS FOR CLUSTERING TEMPLATES IN NON-METRIC SIMILARITY SPACES | 7813531 | 12-Oct-2010 |
| SECURE DATA COMMUNICATIONS WITH NETWORK BACK END DEVICES | 8745371 | 03-Jun-2014 |
| METHOD AND SYSTEM FOR MANAGING ONE OR MORE RECURRENCIES | 9330380 | 03-May-2016 |

2. PATENT APPLICATIONS:

| Title | Application Number | File Date |
|--|--------------------|-------------|
| QUEUE BANK REPOSITORY AND METHOD FOR SHARING LIMITED QUEUE BANKS IN MEMORY | 10973765 | 26-Oct-2004 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| AUTOMATIC SYSTEM FOR UPDATING DATA | 11020550 | 22-Dec-2004 |
| DOCUMENT TRUNCATION DOCUMENT PROCESSOR WITH HIGH CAPACITY STACKER POCKET | 11153712 | 15-Jun-2005 |
| DOCUMENT TRUNCATION DOCUMENT PROCESSOR WITH DISPOSABLE/RECYCLABLE STORAGE TRAY | 11153730 | 15-Jun-2005 |
| SYSTEM AND METHOD FOR UTILIZING DYNAMICALLY SCANNABLE BRANCH VARIABLES TO CONTROL AN INSTRUCTION PROCESSOR | 11226508 | 14-Sep-2005 |
| TRANSPORTATION SECURITY SYSTEM AND METHOD THAT SUPPORTS INTERNATIONAL TRAVEL METHOD OF PROCESSING COUNTS WHEN AN END NODE IS ENCOUNTERED | 10642892 | 13-Dec-2005 |
| K ENGINE - PROCESS COUNT AFTER BUILD IN THREADS | 11384704 | 20-Mar-2006 |
| WORKLOAD SUPPORT FOR WORKLOAD MANAGEMENT | 11449092 | 08-Jun-2006 |
| METHOD FOR USING XML METADATA INTERCHANGE (XMI) TO FACILITATE VERIFICATION OF COMPLIANCE TO INDUSTRY STANDARDS | 11/581849 | 16-Oct-2006 |
| METHOD AND APPARATUS FOR PROGRAMMABLE QUALITY OF SERVICE IN VIRTUAL CHANNELS | 11/637483 | 12-Dec-2006 |
| A NETWORK ADAPTATION LAYER FOR AN OPERATING SYSTEM ENVIRONMENT OPERATING WITHIN ANOTHER OPERATING SYSTEM IMPROVED PERFORMANCE OF SLAVE-SIDE ARBITRATION USING FIFO BUFFERS | 11/647848 | 29-Dec-2006 |
| COMMUNICATION SYSTEM AND METHOD USING VISUAL INTERFACES FOR MOBILE TRANSACTIONS IMAGING OF FINANCIAL DOCUMENTS STORED IN CARRIER ENVELOPES | 11713148 | 02-Mar-2007 |
| COMPACT MULTIPASS DOCUMENT PROCESSOR | 11788724 | 20-Apr-2007 |
| COMMUNICATION SYSTEM AND METHOD USING VISUAL INTERFACES FOR MOBILE TRANSACTIONS IMAGING OF FINANCIAL DOCUMENTS STORED IN CARRIER ENVELOPES | 11793279 | 15-Jun-2007 |
| COMPACT MULTIPASS DOCUMENT PROCESSOR | 12/020608 | 28-Jan-2008 |
| COMPACT MULTIPASS DOCUMENT PROCESSOR | 12176791 | 21-Jul-2008 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| System and Method for Providing a Passive Socket Connection between a Java Processor Appliance and a Server | 12209596 | 12-Sep-2008 |
| System and Method for Providing Local File Storage within a Java Processor Appliance connected to a Server | 12209520 | 12-Sep-2008 |
| SYSTEM AND METHOD FOR PROVIDING LOW-COST AUTHENTICATION TO NON-INTERNET CONNECTED DEVICES | 12270020 | 13-Nov-2008 |
| BLOCK LEVEL DATA STORAGE SECURITY SYSTEM | 12272012 | 17-Nov-2008 |
| A SYSTEM FOR ASSISTING THE GENERATION OF AN AGREEMENT FOR OUTSOURCING TECHNOLOGY SERVICES | 12303986 | 09-Dec-2008 |
| DATA RECOVERY USING ERROR STRIP IDENTIFIERS | 12336558 | 17-Dec-2008 |
| Storage Security Using Cryptographic Splitting | 12336559 | 17-Dec-2008 |
| DAR STORAGE SECURITY USING CRPTO SPLITTING CLIENT AUTHENTICATION AND DISK PRESENTATION | 12336562 | 17-Dec-2008 |
| Disaster Recovery Using Cryptographic Splitting | 12342547 | 23-Dec-2008 |
| CRYPTO DISASTER RECOVERY-PROVIDING PERFORMANCE ENHANCEMENTS WITH MULTIPLE SITES | 12342523 | 23-Dec-2008 |
| STORAGE COMMUNITIES OF INTEREST USING CRYPTOGRAPHIC SPLITTING | 12342636 | 23-Dec-2008 |
| STORAGE COMMUNITIES OF INTEREST USING CRYPTOGRAPHIC SPLITTING | 12342575 | 23-Dec-2008 |
| STORAGE COMMUNITIES OF INTEREST USING CRYPTOGRAPHIC SPLITTING | 12342610 | 23-Dec-2008 |
| VIRTUAL TAPE BACKUP ARRANGEMENT USING CRYPTOGRAPHICALLY SPLIT STORAGE | 12342414 | 23-Dec-2008 |
| MANAGEMENT OF SPLIT DATA SHARES AT AN I/O BLOCK BASIS | 12346578 | 30-Dec-2008 |
| SIMULTANEOUS PARALLEL ENCRYPTION OF I/O DATA BLOCKS | 12346561 | 30-Dec-2008 |
| SCHEDULING AND DISPATCHING TASKS IN AN EMULATED OPERATING SYSTEM | 12367921 | 09-Feb-2009 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| CHECK PROCESSING DEVICE WITH OPTIMISED REVERSING TRACK LAYOUT AND SINGLE IMAGE CAPACITY | 12470544 | 22-May-2009 |
| WORKGROUP KEY WRAPPING FOR COMMUNITY OF INTEREST MEMBERSHIP AUTHENTICATION | 12476437 | 02-Jun-2009 |
| PROVIDING TRANSACTION ACCOUNTABILITY WITHIN JAVA EE | 12502504 | 14-Jul-2009 |
| SECURE CUSTOM APPLICATION CLOUD COMPUTING ARCHITECTURE | 12525848 | 05-Aug-2009 |
| METHOD AND SYSTEM FOR IDENTIFYING COMMONALITY AMONG PATTERN DEFINITIONS | 12543098 | 18-Aug-2009 |
| METHOD AND APPARATUS FOR DISPLAYING A MONITORED STATE WITH NO EXPLICIT CONNECTION SYSTEM AND METHOD TO EVALUATE AND SIZE | 12568706 | 29-Sep-2009 |
| RELATIVE SYSTEM PERFORMANCE | 12696420 | 29-Jan-2010 |
| METHOD AND SYSTEM FOR MANAGING POWER CONSUMPTION OF A COMPUTING DEVICE | 12730150 | 23-Mar-2010 |
| AUTOMATED SWITCH IN BUSINESS-LEVEL RULES IN RESPONSE TO HOST-LEVEL EVENT | 12751529 | 31-Mar-2010 |
| SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR CONFIGURING NETWORK SETTINGS | 12783695 | 20-May-2010 |
| SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR CONFIGURING HARDWARE | 12783692 | 20-May-2010 |
| SYSTEMS METHODS AND COMPUTER PROGRAM PRODUCTS PROVIDING AN INTERFACE FOR ONE OR MORE DATABASES | 12814516 | 14-Jun-2010 |
| REAL-TIME DETERMINATION OF SOFTWARE INSTALLATION STATUS | 12825404 | 29-Jun-2010 |
| SILENT ERROR DETECTION IN SRAM-BASED FPGA DEVICES | 12833956 | 10-Jul-2010 |
| CONFIGURING THE CLUSTER | 12836643 | 15-Jul-2010 |
| THE INTERCONNECT PORTION OF THE QPROCESSOR ARCHITECTURE IN A CLUSTER CONFIGURATION | 12836858 | 15-Jul-2010 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| MANAGING THE MQ IN THE CLUSTER | 12836884 | 15-Jul-2010 |
| MANAGING THE CLUSTER | 12836909 | 15-Jul-2010 |
| SYSTEM AND METHOD FOR CONTINUATION OF A WEB SESSION | 12839527 | 20-Jul-2010 |
| SYSTEMS AND METHODS FOR PROCESSING AND DELIVERY OF MULTIMEDIA CONTENT | 12890740 | 27-Sep-2010 |
| SYSTEM AND METHOD FOR MANAGING INTERACTIVE FEATURES ASSOCIATED WITH MULTIMEDIA CONTENT | 12890741 | 27-Sep-2010 |
| Leveraging Smart-Meters for Initiating Application Migration across Clouds for Performance and Power-Expenditure Trade-offs | 12893415 | 29-Sep-2010 |
| COMMUNICATING ERRORS BETWEEN AN OPERATING SYSTEM AND INTERFACE LAYER | 12909045 | 21-Oct-2010 |
| RESOURCE ADAPTER FOR INBOUND AND OUTBOUND COMMUNICATIONS IN AN APPLICATION SERVER | 12909993 | 22-Oct-2010 |
| OBTAINING UNIQUE ADDRESSES AND FULLY-QUALIFIED DOMAIN NAMES IN A SERVER HOSTING SYSTEM | 12953806 | 24-Nov-2010 |
| USING A WEB SERVICE TO DELETE DNS RECORDS IN A SERVER HOSTING SYSTEM | 12953819 | 24-Nov-2010 |
| Live Migration of Virtual Machines Across Wide Area Networks | 12959081 | 02-Dec-2010 |
| Asynchronous I/O Commit Operations within a Synchronous Computing Environment | 12960509 | 05-Dec-2010 |
| EFFICIENT STORAGE OF INFORMATION FROM MARKUP LANGUAGE DOCUMENTS | 12960510 | 05-Dec-2010 |
| MULTI-MODAL COMPILING APPARATUS AND METHOD FOR GENERATING A HYBRID CODEFILE | 12962271 | 07-Dec-2010 |
| METHOD AND SYSTEM FOR DETERMINING A CACHE MEMORY CONFIGURATION FOR TESTING | 12962767 | 08-Dec-2010 |
| Other Charge Contracts for ALL or Specific Customers or Groups | 12983426 | 03-Jan-2011 |
| AUTOMATED OTHER CHARGE ASSOCIATION FOR AIR WAYBILLS | 12983432 | 03-Jan-2011 |
| MERGE JOIN ENHANCEMENT | 12983417 | 03-Jan-2011 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| IMPROVED RECORD COUNTING PERFORMANCE FOR DATABASES | 13005808 | 13-Jan-2011 |
| BALANCED TREE INDEXING USING TIME REPRESENTATIONS | 13021003 | 04-Feb-2011 |
| BALANCED TREE INDEXING USING TIME REPRESENTATIONS | 13024697 | 10-Feb-2011 |
| SYSTEM AND METHOD FOR PROVIDING A STEALTH SECURE VIRTUAL TERMINAL | 13105154 | 11-May-2011 |
| METHODS AND SYSTEMS FOR PROVIDING AND CONTROLLING CRYPTOGRAPHIC SECURE COMMUNICATIONS ACROSS UNSECURED NETWORKS | 13105141 | 11-May-2011 |
| DETECTING AND DIAGNOSING MISBEHAVING APPLICATIONS IN VIRTUALIZED COMPUTING SYSTEMS | 13152335 | 03-Jun-2011 |
| METHOD AND SYSTEM FOR A MULTIPLE DATABASE REPOSITORY | 13162090 | 16-Jun-2011 |
| METHOD AND SYSTEM FOR AUTOMATED SYSTEM MIGRATION | 13170564 | 28-Jun-2011 |
| METHOD AND SYSTEM FOR ANALYSIS OF DATABASE RECORDS | 13184851 | 18-Jul-2011 |
| SYSTEM AND METHOD FOR PROVIDING ADVANCED CUSTOMS REPORTING IN A LOGISTICS MANAGEMENT SYSTEM | 13210401 | 16-Aug-2011 |
| INTERACTIVE DOCUMENTATION SYSTEM FOR DATABASE PARAMETERS | 13226531 | 07-Sep-2011 |
| SECURE INTEGRATED CYBERSPACE SECURITY AND SITUATIONAL AWARENESS SYSTEM | 13248114 | 29-Sep-2011 |
| METHOD AND SYSTEM FOR CERTIFYING CONTACT INFORMATION | 13299369 | 18-Nov-2011 |
| SYSTEMS AND METHODS FOR DEBUGGING JUST-IN-TIME STATIC TRANSLATION IN AN EMULATED SYSTEM | 13299452 | 18-Nov-2011 |
| SINGLE DEVELOPMENT TEST ENVIRONMENT | 13339906 | 29-Dec-2011 |
| METHOD TO POPULATE ALTERNATE DATABASE FILES | 13339423 | 30-Dec-2011 |
| METHOD TO POPULATE ALTERNATE DATABASE FILES | 13339431 | 30-Dec-2011 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| PROVIDING CLUSTER STORAGE WITH FIBRE CHANNEL OVER ETHERNET AND MULTIPATH INPUT/OUTPUT | 13339470 | 30-Dec-2011 |
| ADDING OR REPLACING DISKS WITH RE-KEY PROCESSING | 13339457 | 30-Dec-2011 |
| On-Demand Supplemental Documentation Interface for Workload Management | 13343778 | 05-Jan-2012 |
| METHOD AND SYSTEM FOR TESTING A CACHE MEMORY ARCHITECTURE | 13343792 | 05-Jan-2012 |
| IMPROVED PERFORMANCE BY OFF-LOADING ENCRYPTION PROCESSING | 13355639 | 23-Jan-2012 |
| DEFERRED DATA REPLICATION | 13355635 | 23-Jan-2012 |
| DEFERRED DATA REPLICATION WITH SNAPSHOT RECORDS | 13358946 | 26-Jan-2012 |
| TRANSLATION OF NON-NATIVE CODE BASED ON META-OPERATORS | 13358960 | 26-Jan-2012 |
| OPERATING SYSTEM SUBSYSTEMS WITH SEMI-PRIVILEGED PERMISSIONS | 13364620 | 02-Feb-2012 |
| DATABASE REPLICATION | 13420924 | 15-Mar-2012 |
| EVENT LOGGER FOR JUST-IN-TIME STATIC TRANSLATION SYSTEM | 13432416 | 28-Mar-2012 |
| NETWORK TRAFFIC TRACKING | 13493044 | 11-Jun-2012 |
| VIRTUAL GATEWAYS FOR ISOLATING VIRTUAL MACHINES | 13547143 | 12-Jul-2012 |
| AUTOMATED PROVISIONING OF VIRTUAL MACHINES | 13547148 | 12-Jul-2012 |
| METHODS FOR COLUMN DELETION IN SHAREPOINT | 13564869 | 02-Aug-2012 |
| OPTIMIZED TYPING INTERFACE | 13570796 | 09-Aug-2012 |
| Business Continuity Configuration Tool | 13595059 | 27-Aug-2012 |
| METHOD FOR SAVING/RETRIEVING WINDOWS FORM VALUES INTO/FROM SQL SERVER DATABASE IN THE FORM OF XML FILE | 2663/DEL/2012 | 28-Aug-2012 |
| METHOD FOR SAVING/RETRIEVING WINDOWS FORM VALUES INTO/FROM SQL SERVER DATABASE IN THE FORM OF XML FILE | 2661/DEL/2012 | 28-Aug-2012 |
| METHOD FOR SAVING/RETRIEVING WINDOWS FORM VALUES INTO/FROM SQL SERVER DATABASE IN THE FORM OF XML FILE | 2662/DEL/2012 | 28-Aug-2012 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| TRACE ROUTE COMMAND EXECUTION FROM A VIRTUALIZED ENVIRONMENT | 13604785 | 06-Sep-2012 |
| TEAM PROCESSING USING DYNAMIC LICENSES | 13604725 | 06-Sep-2012 |
| RELATIONAL DATABASE TREE ENGINE IMPLEMENTING MAP-REDUCE QUERY HANDLING | 13658034 | 23-Oct-2012 |
| SECURE CONNECTION FOR A REMOTE DEVICE THROUGH A VIRTUAL RELAY DEVICE | 13664502 | 31-Oct-2012 |
| A VIRTUAL RELAY DEVICE FOR PROVIDING A SECURE CONNECTION TO A REMOTE DEVICE | 13664505 | 31-Oct-2012 |
| SECURE CONNECTION FOR A REMOTE DEVICE THROUGH A MOBILE APPLICATION | 13664507 | 31-Oct-2012 |
| TRANSLATING FUNCTION CALLS IN VIRTUALIZED ENVIRONMENTS | 13680128 | 19-Nov-2012 |
| INSTRUCTION CODE TRANSLATOR FOR DYNAMIC TRANSLATION SYSTEM | 13681526 | 20-Nov-2012 |
| OPERATING SYSTEM MODULE BACKUP AND RESTORE OPERATION | 13681539 | 20-Nov-2012 |
| OPTIMIZED EXECUTION OF VIRTUALIZED SOFTWARE USING SECURELY PARTITIONED VIRTUALIZATION SYSTEM WITH DEDICATED RESOURCES | 14199112 | 20-Nov-2012 |
| ERROR RECOVERY IN SECURELY PARTITIONED VIRTUALIZATION SYSTEM WITH DEDICATED RESOURCES | 14199140 | 20-Nov-2012 |
| BLOCK-LEVEL DATA STORAGE USING AN OUTSTANDING WRITE LIST | 13689906 | 30-Nov-2012 |
| STORAGE SECURITY USING CRYPTOGRAPHIC SPLITTING | 13706457 | 06-Dec-2012 |
| HACKER FRUSTRATION FOR BRUTE-FORCE ATTACKS | 13726713 | 26-Dec-2012 |
| EQUALIZING WEAR ON STORAGE DEVICES THROUGH FILE SYSTEM CONTROLS | 13726675 | 26-Dec-2012 |
| EQUALIZING WEAR ON STORAGE DEVICES THROUGH STORAGE DEVICE POLICIES | 13726680 | 26-Dec-2012 |
| RENEGOTIATION OF SECURE CONNECTION DURING HIGH VOLUME DATA TRANSFER | 13726696 | 26-Dec-2012 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SECURE INTERNET PROTOCOL (IP) FRONT-END FOR VIRTUALIZED ENVIRONMENTS | 13732002 | 31-Dec-2012 |
| STEALTH APPLIANCE BETWEEN A STORAGE CONTROLLER AND A DISK ARRAY | 13731217 | 31-Dec-2012 |
| DOMAIN SCRIPTING LANGUAGE FRAMEWORK FOR SERVICE AND SYSTEM INTEGRATION | 13744882 | 18-Jan-2013 |
| SYSTEM AND METHOD TO PROVIDE AUTOMATIC GEOGRAPHIC ALLOTMENT RELEASE IN A LOGISTICS MANAGEMENT SYSTEM | 13767273 | 14-Feb-2013 |
| METHOD AND SYSTEM FOR DATA SYSTEM MANAGEMENT USING CLOUD-BASED DATA MIGRATION | 13800049 | 13-Mar-2013 |
| DISTRIBUTED SECURITY OVER MULTIPLE INDEPENDENT NETWORKS USING SECURE "PARSING" TECHNOLOGY | 13827022 | 14-Mar-2013 |
| uDrop Software Architecture | 13832776 | 15-Mar-2013 |
| Disaster Recovery Using Cryptographic Splitting | 13834113 | 15-Mar-2013 |
| CRYPTO DISASTER RECOVERY-PROVIDING PERFORMANCE ENHANCEMENTS WITH MULTIPLE SITES | 13834678 | 15-Mar-2013 |
| Storage Security Using Cryptographic Splitting | 13833944 | 15-Mar-2013 |
| STORAGE COMMUNITIES OF INTEREST USING CRYPTOGRAPHIC SPLITTING | 13834852 | 15-Mar-2013 |
| STORAGE COMMUNITIES OF INTEREST USING CRYPTOGRAPHIC SPLITTING | 13835041 | 15-Mar-2013 |
| SECURE NETWORK ATTACHED STORAGE | 13835794 | 15-Mar-2013 |
| AUTOMATED LANGUAGE TRANSLATION FROM TEXT WITH USER-SELECTED PARAMETERS AND REVERSE-TRANSLATION FEEDBACK | 13847062 | 19-Mar-2013 |
| AUTOMATED LANGUAGE TRANSLATION FROM TEXT WITH USER-SELECTED PARAMETERS AND REVERSE-TRANSLATION FEEDBACK | 13847059 | 19-Mar-2013 |
| METHOD AND SYSTEM FOR FINGERLINE (PHALANGE) MAPPING TO AN INPUT DEVICE OF A COMPUTING DEVICE | 13847086 | 19-Mar-2013 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| NETWORK INTEGRATION OF DISPLAY PROCESSING SYSTEM | 13853714 | 29-Mar-2013 |
| AN IMPROVED TECHNIQUE FOR DEPLOYING OPERATING SYSTEMS IN A VIRTUALIZED ENVIRONMENT | 13944933 | 08-Apr-2013 |
| Database File Copy/Dump to Mass Storage with Ongoing Updates | 13873451 | 30-Apr-2013 |
| REQUESTING AND STORING CERTIFICATES FOR SECURE CONNECTION VALIDATION | 13873472 | 30-Apr-2013 |
| AGENTLESS MONITORING OF COMPUTER SYSTEMS | 14011828 | 28-Aug-2013 |
| AN ALERT FILTER FOR DEFINING RULES FOR PROCESSING RECEIVED ALERTS | 14011839 | 28-Aug-2013 |
| DATA RATE MONITORING TO DETERMINE CHANNEL FAILURE | 14017370 | 04-Sep-2013 |
| METHODS AND SYSTEMS FOR INSPECTION OF INDIVIDUALS | 14034182 | 23-Sep-2013 |
| METHODS AND SYSTEMS FOR INSPECTIONS OF INDIVIDUALS | 14034193 | 23-Sep-2013 |
| Stealth over IPsec | 14042182 | 30-Sep-2013 |
| Stealth over IPsec | 14042212 | 30-Sep-2013 |
| Stealth over IPsec | 14042239 | 30-Sep-2013 |
| BEST PRACTICES FOR FACIAL RECOGNITION FOR ENHANCING AIRPORT SECURITY | 14055930 | 17-Oct-2013 |
| BEST PRACTICES FOR FACIAL RECOGNITION FOR ENHANCING AIRPORT SECURITY | 14055932 | 17-Oct-2013 |
| BEST PRACTICES FOR FACIAL RECOGNITION FOR ENHANCING AIRPORT SECURITY | 14055935 | 17-Oct-2013 |
| BIG DATA ANALYSIS IN THE CLOUD | 14055977 | 17-Oct-2013 |
| BIG DATA ANALYSIS IN THE CLOUD | 14055988 | 17-Oct-2013 |
| BIG DATA ANALYSIS IN THE CLOUD | 14055981 | 17-Oct-2013 |
| CONFIGURATION AND INSTALLATION AUTOMATION | 14082273 | 18-Nov-2013 |
| TRANSACTION EXECUTION IN SYSTEMS WITHOUT TRANSACTION SUPPORT | 14082288 | 18-Nov-2013 |
| MULTI-VALUED BUTTON CONTROLS FOR A GUI | 29473325 | 21-Nov-2013 |
| SHORTCUT COMMAND BUTTON FOR A HIERARCHY TREE | 14085902 | 21-Nov-2013 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SYSTEM AND METHOD FOR AFFINITY DISPATCHING FOR TASK MANAGEMENT IN AN EMULATED MULTIPROCESSOR ENVIRONMENT | 14088479 | 25-Nov-2013 |
| METHOD AND SYSTEM FOR SELECTING AND EXECUTING TEST SCRIPTS | 14094838 | 03-Dec-2013 |
| METHOD AND SYSTEM FOR SELECTING AND EXECUTING TEST SCRIPTS | 14094850 | 03-Dec-2013 |
| METHOD AND SYSTEM FOR SELECTING AND EXECUTING TEST SCRIPTS | 14094855 | 03-Dec-2013 |
| APPLICATION SERVICE INTEGRATION | 14097505 | 05-Dec-2013 |
| METHOD FOR MANAGING COMMODITY COMPUTING | 14108521 | 17-Dec-2013 |
| INTERCONNECT PARTITION BINDING API, ALLOCATION AND MANAGEMENT OF APPLICATION-SPECIFIC PARTITIONS | 14133808 | 19-Dec-2013 |
| MONITORING OF PARTITIONED ENVIRONMENTS | 14138361 | 23-Dec-2013 |
| SHORTCUT COMMAND BUTTON FOR A HIERARCHY TREE | 29477699 | 26-Dec-2013 |
| SHORTCUT COMMAND BUTTON FOR A HIERARCHY TREE | 29477697 | 26-Dec-2013 |
| DEDICATING PROCESSING RESOURCES TO JUST-IN-TIME COMPILERS AND INSTRUCTION PROCESSORS IN A DYNAMIC TRANSLATOR | 14143308 | 30-Dec-2013 |
| DYNAMIC OPERATION OF THE CONFIGURATION OF A JIT TRANSLATOR/COMPILER AND IMPLEMENTING A CONTROL CONSOLE DISPLAYING AND DYNAMICALLY CONTROLLING THE OPERATION OF A JIT TRANSLATOR/COMPILER IN A SEPARATE THREAD | 14143329 | 30-Dec-2013 |
| IMPLEMENTING AN INDIRECT OPERAND INSTRUCTION IN A DYNAMIC TRANSLATOR THAT USES INSTRUCTION CODE TRANSLATION AND JUST-IN-TIME COMPILATION | 14143359 | 30-Dec-2013 |
| EXECUTION OF A NON-COMPILED INSTRUCTION CODE DURING EXECUTION OF A COMPILED INSTRUCTION PATH | 14143370 | 30-Dec-2013 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| SYNCHRONOUS AND ASYNCHRONOUS OPERATION OF A DYNAMIC TRANSLATOR THAT USES INSTRUCTION CODE TRANSLATION AND JUST-IN-TIME COMPILATION | 14143381 | 30-Dec-2013 |
| i-CODE TRANSLATOR INTERRUPT MECHANISM | 14143391 | 30-Dec-2013 |
| SYSTEM AND METHOD FOR HIGH PERFORMANCE NETWORK I/O AFFINITY DISPATCHING MECHANISM SYSTEMS AND METHODS FOR MEMORY MANAGEMENT IN A DYNAMIC TRANSLATION COMPUTER SYSTEM | 14143261 | 30-Dec-2013 |
| N-LEVEL ROLES AND PERMISSIONS IN A CLOUD | 14156525 | 16-Jan-2014 |
| N-LEVEL ROLES AND PERMISSIONS IN A CLOUD METHOD FOR DYNAMIC HELP CONTENT PRESENTATION | 14156529 | 16-Jan-2014 |
| ADVANCED MODE COMMAND BUTTON | 14168080 | 30-Jan-2014 |
| ENHANCED SECURITY SETUP FOR MEDIA DECRYPTION | 14168116 | 30-Jan-2014 |
| | 14190213 | 26-Feb-2014 |
| ENHANCED SECURITY FOR MEDIA ENCRYPTION | 14190227 | 26-Feb-2014 |
| ENHANCED SECURITY FOR MEDIA DECRYPTION | 14190267 | 26-Feb-2014 |
| HIGH AVAILABILITY SERVER CONFIGURATION | 14191811 | 27-Feb-2014 |
| HIGH AVAILABILITY SERVER CONFIGURATION WITH N + M ACTIVE AND STANDBY SYSTEMS SYSTEMS AND METHODS FOR AN AUTOMATED ENTRY SYSTEM | 14191815 | 27-Feb-2014 |
| Provider Management Fraud Modules | 14220174 | 20-Mar-2014 |
| Provider Management Fraud Modules | 14244138 | 03-Apr-2014 |
| PRORATION CALCULATION IN A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14244129 | 03-Apr-2014 |
| DYNAMICALLY GENERATING AND MANAGING FLIGHT ROUTINGS USING A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14252085 | 14-Apr-2014 |
| ICONS AND GRAPHICAL USER INTERFACE FOR A DISPLAY SCREEN | 14294226 | 03-Jun-2014 |
| | 29493550 | 11-Jun-2014 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| ICONS AND GRAPHICAL USER INTERFACE FOR A DISPLAY SCREEN | 29493549 | 11-Jun-2014 |
| MULTI-THREADED SERVER CONTROL AUTOMATION FOR DISASTER RECOVERY | 14302851 | 12-Jun-2014 |
| Framework to accommodate Test plan changes without affecting/Interrupting Test Execution | 14307624 | 18-Jun-2014 |
| DATABASE REPLICATION BETWEEN COMPUTER SYSTEMS WITH DIFFERENT ARCHITECTURES | 14314068 | 25-Jun-2014 |
| AUTOMATED CODE PARSER FOR REVIEWING AUTOMATION SCRIPTS | 14314067 | 25-Jun-2014 |
| VIRTUAL TAPE LIBRARY (VTL) MONITORING SYSTEM | 14314066 | 25-Jun-2014 |
| LOGISTICS MANAGEMENT SYSTEM WITH ALL-IN SPOT RATE PRICING | 14338456 | 23-Jul-2014 |
| DATA PATH SELECTION FOR NETWORK TRANSFER USING HIGH SPEED RDMA OR NON-RDMA DATA PATHS | 14340712 | 25-Jul-2014 |
| RUNTIME VIRTUAL PROCESS CREATION FOR LOAD SHARING | 14452898 | 06-Aug-2014 |
| REDUCED SERVICE PARTITION VIRTUALIZATION SYSTEM AND METHOD | 14468651 | 26-Aug-2014 |
| LOGISTICS MANAGEMENT SYSTEM WITH PRICING BASED ON LINKED TRANSPORTATION AND OTHER CHARGE CONTRACTS | 14474424 | 02-Sep-2014 |
| IMPROVED DATA INPUT/OUTPUT (I/O) HANDLING FOR COMPUTER NETWORK COMMUNICATIONS LINKS | 14474745 | 02-Sep-2014 |
| REMOTE CREDENTIAL MANAGEMENT FOR HYBRID CLOUDS WITH ENTERPRISE NETWORKS | 14474452 | 02-Sep-2014 |
| BUSINESS SUITE FRAMEWORK FOR DEVELOPING SOFTWARE APPLICATIONS | 14479451 | 08-Sep-2014 |
| SECURED FILE SYSTEM MANAGEMENT | 14486255 | 15-Sep-2014 |
| SYNCHRONIZATION OF PHYSICAL FUNCTIONS AND VIRTUAL FUNCTIONS WITHIN A FABRIC | 14487200 | 16-Sep-2014 |
| RESET OF SINGLE ROOT PCI MANAGER AND PHYSICAL FUNCTIONS WITHIN A FABRIC | 14487210 | 16-Sep-2014 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| FABRIC COMPUTER COMPLEX METHOD AND SYSTEM FOR NODE FUNCTION RECOVERY | 14487669 | 16-Sep-2014 |
| COMPUTATION OF HASH VALUE FOR A MESSAGE BASED ON RECEIVED PORTIONS OF THE MESSAGE | 14494654 | 24-Sep-2014 |
| IMPROVED HANDLING OF ANALYTIC QUERIES | 14507912 | 07-Oct-2014 |
| NONSTOP COMPUTING FABRIC ARRANGEMENTS | 14519532 | 21-Oct-2014 |
| DYNAMIC ASSIGNMENT OF RESOURCES FROM HYPERVISORS TO VIRTUAL MACHINES | 14534292 | 05-Nov-2014 |
| ADAPTIVE VIRTUAL SERVER FOR VIRTUAL MACHINE MANAGEMENT | 14534297 | 05-Nov-2014 |
| LEASE MANAGEMENT AND BILLING IN A HYPERVISOR MANAGER FOR VIRTUAL MACHINE MANAGEMENT | 14534303 | 05-Nov-2014 |
| DERIVED TABLE JOIN PROCESSING | 14533267 | 05-Nov-2014 |
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 14538889 | 12-Nov-2014 |
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 14538892 | 12-Nov-2014 |
| SYSTEMS AND METHODS OF DISTRIBUTED SILO SIGNALING | 14538879 | 12-Nov-2014 |
| Energy Aware Scheduling of Real-Time and Non Real-Time Tasks on Cloud Processors | 14542723 | 17-Nov-2014 |
| Energy Aware Scheduling of Real-Time and Non Real-Time Tasks on Cloud Processors | 14542724 | 17-Nov-2014 |
| SCHEDULING OF TASKS ON IDLE PROCESSORS WITHOUT CONTEXT SWITCHING | 14542727 | 17-Nov-2014 |
| PRICE QUOTING OF ALLOTMENTS BASED UPON SELECT CATEGORIES IN A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14542890 | 17-Nov-2014 |
| METHOD OF FINALIZING AN AIR WAYBILL AT THE TIME OF ALLOTMENT BOOKING USING A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14542897 | 17-Nov-2014 |
| PRESERVING THE HIGHEST SHIPPING PRICE USING A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14542902 | 17-Nov-2014 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| FEEES FOR BOOKING CHANGES/CANCELLATIONS | 14542919 | 17-Nov-2014 |
| METHOD OF SELECTING A CONTRACT FOR A BOOKING USING A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14542924 | 17-Nov-2014 |
| GENERATING PRICE QUOTES PASSING DYNAMIC HURDLE RATES WITH REAL-TIME CAPACITY USING A LOGISTICS MANAGEMENT SYSTEM (LMS) | 14542933 | 17-Nov-2014 |
| DYNAMIC MODIFICATION OF DATABASE SCHEMA | 14547471 | 19-Nov-2014 |
| ONLINE REDISTRIBUTION | 14547478 | 19-Nov-2014 |
| WORKING MULTIPLE BOOKINGS OFF A QUEUE IN ONE STEP | 14547620 | 19-Nov-2014 |
| Method of executing test scripts based on runtime test selection | 14562900 | 08-Dec-2014 |
| SYSTEM AND METHOD FOR MANAGING COMPUTING RESOURCES | 14565501 | 10-Dec-2014 |
| SYSTEM AND METHOD FOR MANAGING COMPUTING RESOURCES | 14565509 | 10-Dec-2014 |
| SYSTEM AND METHOD FOR MANAGING COMPUTING RESOURCES | 14565511 | 10-Dec-2014 |
| SYSTEM AND METHOD FOR MANAGING COMPUTING RESOURCES | 14565517 | 10-Dec-2014 |
| DATA EXPANSE USING MEMORY-MAPPED FILES ON A SYSTEM ARCHITECTURE INTERFACE LAYER-BASED MAINFRAME OPERATING SYSTEM | 14573245 | 17-Dec-2014 |
| EXECUTION OF MULTIPLE OPERATING SYSTEMS WITHOUT REBOOTING | 14574917 | 19-Dec-2014 |
| TEXTBOX ASSOCIATED WITH DEVICE NATIVE FEATURES | 14601380 | 22-Dec-2014 |
| SYSTEMS AND METHODS OF GEO-LOCATION BASED COMMUNITY OF INTEREST | 14578738 | 22-Dec-2014 |
| METHOD AND SYSTEM FOR MANAGING AIRPORT BAGGAGE | 14580337 | 23-Dec-2014 |
| TRANSACTION AUTOMATION FOR OPERATIONAL SYSTEMS | 14602615 | 22-Jan-2015 |
| TRANSACTION AUTOMATION FOR OPERATIONAL SYSTEMS | 14602621 | 22-Jan-2015 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| FABRIC COMPUTING SYSTEM AND HAVING AN EMBEDDED SOFTWARE DEFINED NETWORK | 14603496 | 23-Jan-2015 |
| GLOBAL CACHE FOR AUTOMATION VARIABLES DATABASE REPLICATION WITH CONTINUE AND TAPE TYPE OVERRIDE FUNCTIONS | 14618258 | 10-Feb-2015 |
| DATABASE REPLICATION WITH CONTINUE AND TAPE TYPE OVERRIDE FUNCTIONS | 14629908 | 15-Feb-2015 |
| DATABASE REPLICATION WITH CONTINUE AND TAPE TYPE OVERRIDE FUNCTIONS | 14629915 | 15-Feb-2015 |
| SYSTEM AND METHOD FOR IMPLEMENTING A MULTI WORD UTC TIME STAMP USING A SINGLE WORD UTC TIME STAMP AND A MULTI WORD KEY | 14632261 | 26-Feb-2015 |
| SYSTEM AND METHOD FOR DISTINGUISHING AND PROCESSING MULTIPLE TIME STAMP FORMATS USED IN A SINGLE COMPUTING SYSTEM | 14632272 | 26-Feb-2015 |
| SYSTEM AND METHOD FOR OBTAINING TIME STAMP DATA DISPLAYABLE REMOTELY FROM A SINGLE WORD UTC TIME STAMP | 14632278 | 26-Feb-2015 |
| SYSTEM AND METHOD FOR CONVERTING A FORMAT OF A TIME STAMP | 14632285 | 26-Feb-2015 |
| SYSTEM AND METHOD FOR DISPLAYING TIME IN A SINGLE WORD UTC TIME STAMP | 14632299 | 26-Feb-2015 |
| AUTOMATION TOOL FOR ASSEMBLING AN EXPERT RESPONSE TEAM | 14062710 | 27-Feb-2015 |
| CLEARING BANK DESCRIPTORS FOR REUSE BY A GATE BANK | 14638311 | 04-Mar-2015 |
| A DIAGNOSTIC COLLECTOR FOR HADOOP | 14643040 | 10-Mar-2015 |
| HANDLING SERVER AND CLIENT OPERATIONS UNINTERRUPTEDLY DURING PACK AND AUDIT PROCESSES™ | 14666570 | 24-Mar-2015 |
| FILE EXPLORER SYSTEM USABLE IN AN EMULATED INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) | 14667831 | 25-Mar-2015 |
| FIELD SIZE CALCULATION AND COLOR CODING DISPLAY OPTIONS USABLE IN AN EMULATED INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) | 14667851 | 25-Mar-2015 |

| Title | Application Number | File Date |
|--|-----------------------|----------------------------|
| COBOL COPYBOOK CONFIGURATION SYSTEM USABLE IN AN EMULATED INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) INTEGRATED SECURITY MANAGEMENT | 14667866 14667741 | 25-Mar-2015 25-Mar-2015 |
| DISTRIBUTABLE COMPUTATIONAL UNITS IN A CONTINUOUS COMPUTING FABRIC ENVIRONMENT DISTRIBUTED AND CONTINUOUS COMPUTING IN A FABRIC ENVIRONMENT | 14669342 14669351 | 26-Mar-2015 26-Mar-2015 |
| DISTRIBUTED I/O OPERATIONS PERFORMED IN A CONTINUOUS COMPUTING FABRIC ENVIRONMENT | 14669359 | 26-Mar-2015 |
| DISTRIBUTED FILE STORAGE IN A CONTINUOUS COMPUTING FABRIC ENVIRONMENT | 14669364 | 26-Mar-2015 |
| ENTERPRISE MANAGEMENT FOR SECURE NETWORK COMMUNICATIONS OVER IPSEC IDENTIFICATION OF AUTOMATION CANDIDATES USING AUTOMATION DEGREE OF IMPLEMENTATION METRICS | 14688348 14697738 | 16-Apr-2015 28-Apr-2015 |
| IDENTIFICATION OF PROGRESS TOWARDS COMPLETE MESSAGE SYSTEM INTEGRATION USING AUTOMATION DEGREE OF IMPLEMENTATION METRICS | 14697749 | 28-Apr-2015 |
| DEBUG AND VERIFY EXECUTION MODES FOR COMPUTING SYSTEMS CALCULATING AUTOMATION DEGREE OF IMPLEMENTATION METRICS | 14697756 | 28-Apr-2015 |
| BUSINESS SUITE FRAMEWORK FOR DEVELOPING SOFTWARE APPLICATIONS | 14704225 | 05-May-2015 |
| DYNAMIC REPLACEMENT OF SOFTWARE COMPONENTS | 14732043 | 05-Jun-2015 |
| DYNAMIC REPLACEMENT OF SOFTWARE COMPONENTS | 14732054 | 05-Jun-2015 |
| DYNAMIC REPLACEMENT OF SOFTWARE COMPONENTS | 14732063 | 05-Jun-2015 |
| SYSTEMS AND METHODS FOR QR CODE VALIDATION | 14732897 | 08-Jun-2015 |
| SYSTEMS AND METHODS FOR QR CODE VALIDATION | 14732901 | 08-Jun-2015 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SYSTEMS AND METHODS FOR QR CODE VALIDATION | 14732903 | 08-Jun-2015 |
| CLEAR ROUTE CACHE COMMANDS FOR NETWORK COMMUNICATIONS PLATFORMS | 14737774 | 12-Jun-2015 |
| SYSTEMS AND METHODS OF GEO-LOCATION BASED COMMUNITY OF INTEREST | 14743207 | 18-Jun-2015 |
| CLEARTEXT GATEWAY FOR SECURE ENTERPRISE COMMUNICATIONS | 14753437 | 29-Jun-2015 |
| SECURED NETWORKS AND ENDPOINTS APPLYING INTERNET PROTOCOL SECURITY | 14753120 | 29-Jun-2015 |
| Secure Network Communications in a Mobile Device Over IPsec | 14753146 | 29-Jun-2015 |
| CLOUD-BASED ACTIVE PASSWORD MANAGER | 14791603 | 06-Jul-2015 |
| CLOUD-BASED ACTIVE PASSWORD MANAGER METHOD AND SYSTEM FOR DARK MATTER SCANNING | 14791595 | 06-Jul-2015 |
| SYSTEMS AND METHODS FOR MODIFYING ACCESS CREDENTIALS USING IMPERSONATION IN COMPUTER SYSTEMS | 14798847 | 14-Jul-2015 |
| SYSTEMS AND METHODS FOR AUTHENTICATING CREDENTIALS WHEN ESTABLISHING SECURE COMMUNICATION CONNECTION SESSIONS | 14823404 | 11-Aug-2015 |
| SYSTEMS AND METHODS FOR AUTHENTICATING CREDENTIALS WHEN ESTABLISHING SECURE COMMUNICATION CONNECTION SESSIONS | 14823416 | 11-Aug-2015 |
| SYSTEMS AND METHODS FOR MAINTAINING OWNERSHIP OF AND AVOIDING ORPHANING OF COMMUNICATION SESSIONS | 14823424 | 11-Aug-2015 |
| SYSTEMS AND METHODS FOR DYNAMICALLY INSTALLING A PROGRAM'S DEPENDENT MODULES BEFORE PROGRAM EXECUTION | 14825621 | 13-Aug-2015 |
| SYSTEM AND METHOD FOR EFFICIENT DATABASE TRANSACTIONS | 14827761 | 17-Aug-2015 |
| SYSTEMS AND METHODS FOR IMPROVING THE MONITORING OF VITALS DATA ASSOCIATED WITH HEALTHCARE CARGO IN TRANSIT | 14830116 | 19-Aug-2015 |

| Title | Application Number | File Date |
|--|--------------------|-------------|
| DYNAMIC METHOD INVOCATION VIA PROXY FRAMEWORK | 14834848 | 25-Aug-2015 |
| A SYSTEM AND METHOD FOR MASKING COMPLEXITY IN A HETEROGENEOUS DEVELOPMENT ENVIRONMENT | 14840370 | 31-Aug-2015 |
| A SYSTEM AND METHOD FOR QUICKLY ACCESSING INFORMATION ABOUT DATA VARIABLES IN PROGRAMMING ENVIRONMENTS | 14850076 | 10-Sep-2015 |
| A SYSTEM AND METHOD FOR ANALYZING DATA DUMPS BY OBTAINING INFORMATION ABOUT VARIABLES | 14850083 | 10-Sep-2015 |
| A SYSTEM AND METHOD FOR SECURELY CONNECTING A USB DEVICE TO A COMPUTING NETWORK | 14868486 | 29-Sep-2015 |
| SYSTEMS AND METHODS FOR PKCS #8 PRIVATE FILE KEY SUPPORT | 14872317 | 01-Oct-2015 |
| SYSTEMS AND METHODS FOR ADAPTIVE ROUTER FAILOVER IN LINUX-BASED COMPUTING SYSTEMS | 14874617 | 05-Oct-2015 |
| CONFIGURING LOGGING IN NON-EMULATED ENVIRONMENT USING COMMANDS AND CONFIGURATION IN EMULATED ENVIRONMENT | 14874642 | 05-Oct-2015 |
| DEVICE EXPECTED STATE MONITORING AND REMEDIATION | 14877304 | 07-Oct-2015 |
| DEVICE EXPECTED STATE MONITORING AND REMEDIATION | 14877326 | 07-Oct-2015 |
| SYSTEMS AND METHODS FOR CONFIGURING AN IPV4 PROCESS WITHOUT ASSOCIATING THE IPV4 PROCESS WITH AN IP LOOPBACK ADDRESS | 14878334 | 08-Oct-2015 |
| Cargo Air Waybill Audit | 14924836 | 28-Oct-2015 |
| METHOD AND SYSTEM FOR SECURE AUTOMATED DEPLOYMENT OF EMULATED COMPUTER SYSTEM | 14931890 | 04-Nov-2015 |
| SYSTEMS AND METHODS FOR CONFIGURING AN IPV4 PROCESS WITHOUT ASSOCIATING THE IPV4 PROCESS WITH AN IP LOOPBACK ADDRESS | 14940392 | 13-Nov-2015 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SYSTEMS AND METHODS FOR ESTABLISHING A VLAN ON A COMPUTING SYSTEM IRRESPECTIVE OF THE COMPUTER NETWORKING TECHNOLOGY UTILIZED BY THE COMPUTING SYSTEM | 14950708 | 24-Nov-2015 |
| SYSTEM AND METHOD FOR ADAPTIVE CONTROL AND ANNOTATION INTERFACE | 14953497 | 30-Nov-2015 |
| SECURE CLOUD DRIVE | 14958021 | 03-Dec-2015 |
| Dynamic Configuration of Commodity Network Switches for Health Monitoring | 14985498 | 31-Dec-2015 |
| ENHANCED MESSAGE CONTROL BANKS | 14994446 | 13-Jan-2016 |
| METHODS AND SYSTEMS FOR PROVIDING AND CONTROLLING CRYPTOGRAPHIC SECURE COMMUNICATIONS ACROSS UNSECURED NETWORKS | 14997771 | 18-Jan-2016 |
| METHODS AND SYSTEMS FOR PROVIDING AND CONTROLLING CRYPTOGRAPHIC SECURE COMMUNICATIONS ACROSS UNSECURED NETWORKS | 14997783 | 18-Jan-2016 |
| METHODS AND SYSTEMS FOR PROVIDING AND CONTROLLING CRYPTOGRAPHIC SECURE COMMUNICATIONS ACROSS UNSECURED NETWORKS | 14997787 | 18-Jan-2016 |
| SECURE REMOTE ACCESS FOR SECURED ENTERPRISE COMMUNICATIONS | 15001354 | 20-Jan-2016 |
| PERSISTENT GUEST AND SOFTWARE-DEFINED STORAGE IN COMPUTING FABRIC | 15001374 | 20-Jan-2016 |
| HYPERVISOR-ENFORCED SELF ENCRYPTING MEMORY IN COMPUTING FABRIC | 15001379 | 20-Jan-2016 |
| ENCRYPTED MEMORY IN COMPUTING FABRIC | 15001387 | 20-Jan-2016 |
| PREFETCHING FOR COMPUTING AIRLINE ROUTES™ | 15016373 | 05-Feb-2016 |
| SYSTEMS AND METHODS FOR DERIVING DATABASE SEMANTIC INFORMATION USING ARTIFICIAL INTELLIGENCE | 62296124 | 17-Feb-2016 |
| SECURE MIGRATABLE ARCHITECTURE HAVING HIGH AVAILABILITY | 15048154 | 19-Feb-2016 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SECURE MIGRATABLE ARCHITECTURE HAVING IMPROVED PERFORMANCE FEATURES | 15048169 | 19-Feb-2016 |
| MEMORY MANAGEMENT WITHIN SECURE MIGRATABLE ARCHITECTURE | 15048172 | 19-Feb-2016 |
| SECURE MIGRATABLE ARCHITECTURE HAVING SECURITY FEATURES | 15048203 | 19-Feb-2016 |
| SECURE MIGRATABLE ARCHITECTURE HAVING IMPROVED PERFORMANCE FEATURES | 15048214 | 19-Feb-2016 |
| Capturing Real Time Workload Performance for MCP Database | 15064742 | 09-Mar-2016 |
| MULTIFUNCTION OPTION VIRTUALIZATION FOR SINGLE ROOT I/O VIRTUALIZATION | 15078166 | 23-Mar-2016 |
| SEGMENTATION OF NON-STOP FABRIC | 15078279 | 23-Mar-2016 |
| EXTRACTION OF AUDIT TRAILS | 15132638 | 19-Apr-2016 |
| EXTRACTION OF AUDIT TRAILS | 15132644 | 19-Apr-2016 |
| SYSTEMS AND METHODS FOR IMPLEMENTING A MULTI-HOST RECORD LOCK DEADLOCK FEEDBACK MECHANISM | 15133270 | 20-Apr-2016 |
| SYSTEMS AND METHODS FOR AUTOMATICALLY RESUMING COMMISSIONING OF A PARTITION IMAGE AFTER A HALT IN THE COMMISSIONING PROCESS | 15135651 | 22-Apr-2016 |
| SINGLE SIGN ON SYSTEM FOR SECURE NETWORKS | 15137398 | 25-Apr-2016 |
| METHOD AND SYSTEM FOR CONTAINERIZED INTERNET OF THINGS (IOT) DEVICES | 15139873 | 27-Apr-2016 |
| Runstream Generator | 15186684 | 20-Jun-2016 |
| SYSTEMS AND METHODS FOR EFFICIENT ACCESS CONTROL | 15187950 | 21-Jun-2016 |
| SYSTEMS AND METHODS FOR IMPLEMENTING A MULTI-HOST RECORD LOCK MECHANISM | 15187973 | 21-Jun-2016 |
| SELF HEALING OF SOFTWARE COMPONENTS IN COMPUTING FABRIC | 15191625 | 24-Jun-2016 |
| EAE/ABSuite Model File Generator | 15194727 | 28-Jun-2016 |
| SECURED CLOUD STORAGE BROKER WITH ENHANCED SECURITY | 15234074 | 11-Aug-2016 |

| Title | Application Number | File Date |
|---|--------------------|-------------|
| SYSTEMS AND METHODS FOR DERIVING DATABASE SEMANTIC INFORMATION USING ARTIFICIAL INTELLIGENCE | 15259458 | 08-Sep-2016 |
| PIXEL VALUE FREQUENCY BASED IMAGE STEGANOGRAPHY FOR COLOR RGB IMAGES | 15265269 | 14-Sep-2016 |
| SYSTEM AND METHOD FOR IMPLEMENTING AN EFFICIENT LARGE SYSTEM PAGE INVALIDATION INTERFACE TO SUPPORT SINGLE SIGN ON SYSTEM FOR SECURE NETWORKS | 15272757 | 22-Sep-2016 |
| SYSTEMS AND METHODS FOR QR CODE VALIDATION | 15281308 | 30-Sep-2016 |
| SYSTEMS AND METHODS FOR QR CODE VALIDATION | 15412617 | 23-Jan-2017 |

3. PATENT LICENSES WHERE A GRANTOR IS AN EXCLUSIVE LICENSEE:

None.