# Timothy W. Markison


| Garlick & Markison | Athalonz, LLC | MPP, Inc. |
|---|---|---|
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**Timothy W. Markison**

Founding Partner of Garlick & Markison
Founder & CEO of Athalonz, LLC
Co-Founder & CEO of MPP, Inc.

FIELDS OF SPECIALIZATION

## Legal

- **Patent application preparation and prosecution**: Covering a wide range of technologies as listed below
- **Patent value generation**: Support clients in building a valuable patent portfolio and support clients in licensing, selling, and/or enforcing patents of their portfolios

## Technology

- **Physics of footwear**: How forces traversing through footwear affect human movement
- **Physics of body impact**: How impact forces can be diffused to reduce risk of injury
- **Monitoring athletic movement in concert with physics of footwear**: Monitoring forces through footwear directly corresponds to athletic movement
- **Wireless communications:** new hardware, software, and/or protocols for Bluetooth, wi-fi, cellular, broadcast, point-to-point, and RFID (Radio Frequency IDentification)
- **Database system:** supporting new hardware design and new software architecture
- **Capacitive touch sensing:** for touch screen applications, bio-medical sensing applications, and bio-medical stimulation
- **Wired communication:** using low analog voltage signaling
- **Erasure encoding dispersed storage:** for safely and securely storing Big Data
- **Quantum computing:** new quantum mechanics approach to qubits and supporting circuitry thereof
- **Artificial Intelligence** based system for code enhancement
- **Intra & Inter wireless communications for ICs** to substantially reduce power consumption of ICs due to digital data conveyances
- **Battery technologies** regarding charging, discharging, and modeling of batteries

## Business

- **Consulting** regarding the business value of patents
- **Strategic patent portfolio development**: regarding the number of inventions to patent protect, when, where, and how to protect inventions, the business objectives of patent portfolio, and the business justification for developing patent portfolio
- **Inventing** independently, on behalf of G&M clients, on behalf of Athalonz, on behalf of MPP, or on behalf of MPP clients

DEGREES

- B.S.E.E. Electrical Engineering & Computer Design from Illinois Institute of Technology, 1984
- Juris Doctorate from Loyola University Chicago School of Law, 1993

PROFESSIONAL MEMBERSHIPS

- Member of USPTO patent bar since 1989
- Member of the Illinois State bar since 1993
- Licensed to practice in the Federal District Courts of Illinois since 1993
- Member of IEEE

PROFESSIONAL POSITIONS

**Current Positions**

**2000 – Present** Founding Partner of Garlick & Markison (G&M)

Responsibilities include:

- Managing the preparation and prosecution of patent applications by other attorneys agents of G&M on behalf of its clients
- Managing quality program to maintain a firm-wide issuance rate of over ninety percent and a maintaining an office action to allowance ratio of two or less
- Personally preparing and prosecuting thousands of patent applications for G&M clients
- Creating patent strategies that resulted in billions of dollar in value for clients (spun out patent strategy in 2023, when MPP was launched)
- Supporting clients in licensing, selling, and/or enforcing patents of their portfolios
- Inventing with, and/or on behalf of, clients to expand their respective patent portfolio

**2011 – Present** Founder & CEO of Athalonz, LLC

Responsibilities include:

- Overseeing business operations
- Leading research & development of footwear that leverages the principles of physics to improve human movement and athletic performance
- Leading the design of physics footwear
- Managing patent protection of physics footwear innovations

- Managing contracts with third parties
- Managing finances of the business

**January 2023 – Present** Co-Founder & CEO of Markison Patent Portal (MPP), Inc.

Responsibilities include:

- Creating Strategic Patent Plans for MPP customers
  - Analysis of current patent portfolio
  - Determine future patent portfolio options
  - Determine various paths to achieve the future patent portfolio options from the current patent portfolio
  - Determine expense projections for the various paths for the various options
  - Valuation estimates of future patent portfolio based on the various paths for the various options
- Leading engineering team to design and build an automated system to support the creation of Strategic Patent Plans
- Overseeing business operations
- Managing patent protection of innovations steaming from the creation of the automated system
- Leading future product development
- Inventing with, and/or on behalf of, customers to expand their respective patent portfolio

**Previous Positions As A Patent Attorney**

**1997 to 2000** General Counsel of SigmaTel, Inc., Austin, TX

Responsibilities include:

- Managing all legal matters for the company
- Managing patent protection of innovations company products
- Inventing with engineering team to expand company's patent portfolio

**1997 to 1999** Partner of Markison & Reckamp, Austin, TX

Responsibilities include:

- Managing the preparation and prosecution of patent applications by other attorneys agents of firm on behalf of its clients
- Managing quality program to maintain high level patent quality
- Preparing and prosecuting patent applications for firm clients

**1996 to 1997** Director of IP for Wireless Group of Nortel Networks, Richardson TX

Responsibilities include:

- Creating a strategy to patent protect inventions of the wireless group
- Creating a strategy to exploit patents of the wireless group
- Negotiating IP contracts for the wireless group

**1995 to 1996** Sr. Associate at Jenkins & Gilchrist, Austin TX

Responsibilities include:

- Preparing and prosecuting patent applications for firm clients
- Writing legal opinions regarding validity and non-infringement

**1988 to 1995** Sr. Attorney, Attorney, and Patent Agent at Motorola, Schaumburg, IL and Austin TX

Responsibilities include:

- Preparing and prosecuting patent applications for Motorola
- Training other practitioners regarding patent application preparation and prosecution
- Negotiating IP contracts for certain departments of Motorola

**Previous Positions As An Engineer**

**1987 to 1988** Sr. Engineer at Micro-Energy, Carol Stream, IL

Responsibilities include:

- Designing commercial grade switch mode power supplies

**1984 to 1987** Engineer at Northrup Corp, Rolling Meadows IL

Responsibilities include:

- Designing military grade high-voltage switch mode power supplies

**1978 to 1984** Draftsman, Technician, & Jr. Engineer at Power Conversion Products, Crystal Lake IL

Responsibilities include:

- Designing commercial grade battery chargers for battery backup systems

TECHNOLOGY OF PREPARED AND/OR PROSECUTED PATENT APPLICATIONS

The technology covered by the patent applications I have prepared and/or prosecuted, in alphabetical order:

- 3D video processing
- Artificial Intelligence
- Athletic training equipment
- Capacitive touch sense and applications
- Cloud computing
- Cloud storage
- Cold nuclear fusion
- Computer hardware and software architectures
- Cybersecurity
- Cryptocurrency
- Database architecture
- Database applications

- Digital gift card network and processing
- Electric vehicles
- Erasure encoding dispersed storage system and interworking thereof
- Item location tracking
- Intra-IC wireless communications
- Health data analysis systems
- Health management systems
- Liquid Hydrogen power generation
- Motor design
- Monitoring athletic movement in concert with physics of footwear
- Physics of body impact
- Physics of footwear
- Quantum computing
- Radio Frequency Identification
- Secure communication systems
- Wired communication using low analog voltage signaling
- Wireless communications (Bluetooth, wi-fi, cellular, and RFID (radio frequency identification)

PATENTS

As of October 15, 2024, I am a named inventor on 453 issued patents. Appendix I includes a list of my issued patents that were filed during or after 2001. The following is an overview of my patents.

A) I am a named inventor on 28 U.S patents assigned to Motorola regarding the subject matter of preventing unauthorized use of land mobile wireless communication systems (e.g., police wireless radio systems, airport wireless radio systems, etc.).

B) I am a named inventor on 3 U.S. patents assigned to SigmaTel, Inc. The technology is regarding IR communication protocols.

C) I am a named inventor on 15 U.S. patents assigned to Broadcom, Inc. The technology is regarding wireless communications.

D) I am a named inventor on 128 U.S. patents assigned to Cleversafe, Inc. The technology is regarding error encoding distributed storage.

E) I am a named inventor on 26 U.S. patents assigned to Athalonz, LLC. The technology is regarding athletic enhancing footwear based on the principles of physics and portable pitching mounds.

F) I am a named inventor on 87 U.S. patents assigned to SigmaSense, LLC. The technology is regarding capacitive touch sensing and applications thereof.

G) I am a named inventor on 46 U.S. patents assigned to Pure Storage, Inc. The technology is regarding error encoding distributed storage.

H) I am a named inventor on 1 U.S. patent assigned to Markison Patent Portal, Inc. The technology is regarding an improved computer architecture to support protection of technology.

I) I am a named inventor on 6 U.S. patents assigned to Visa, Inc. The technology is regarding credit card imaging for mobile payment.

J) I am a named inventor on 4 U.S. patents assigned to ViXS Systems, Inc. The technology is regarding integrated circuits.

K) I am a named inventor on 20 U.S. patents that are not assigned. The technology is regarding force impact focusing, force impact diffusing, athletic movement monitoring, and capacitance based data storage.

L) I am a named inventor on 2 U.S. patents assigned to Imageworks Interactive. The technology is regarding data management and organization for specific applications.

M) I am a named inventor on 82 U.S. patents assigned to International Business Machines Corporation. The technology is regarding error encoding distributed storage.

N) I am a named inventor on 3 U.S. patents assigned to Admark Athletic Ventures (now Athalonz). The technology is regarding athletic enhancing footwear based on the principles of physics

O) I am a named inventor on 2 U.S. patents assigned to Xilinx, Inc. The technology is regarding field programmable gate arrays.

As of October 15, 2024, I am a named inventor on 80 pending patent applications. Appendix II includes a list of my pending patent applications.

# Appendix I

A list of my issued patents filed on or after 2001.

| Patent No. | Patent Application Title | Filed Date | Application Number | Inventor(s) |
|---|---|---|---|---|
| 7,184,490 | LOW POWER DISTRIBUTED TRANSMITTER | 12-18-2001 | 10/026,130 | Mathew A. Rybicki<br>Michael D. Cave<br>Michael R. May<br>Timothy W. Markison |
| 7,190,083 | HIGH FREQUENCY INTEGRATED CIRCUIT USING CAPACITIVE BONDING | 01-07-2002 | 10/041,318 | Michael D. Cave<br>Michael R. May<br>Mathew A. Rybicki<br>Timothy W. Markison |
| 9516483 | WIRELESS COMMUNICATION BETWEEN STATIONS OF DIFFERING PROTOCOLS | 05-28-2004 | 10/857,540 | Christopher J. Hansen<br>Jason Alexander Trachewsky<br>Timothy W. Markison |
| 7,211,465 | METHOD OF USING CAPACITIVE BONDING IN A HIGH FREQUENCY INTEGRATED CIRCUIT | 07-05-2005 | 11/174,824 | Michael D. Cave<br>Michael R. May<br>Mathew A. Rybicki<br>Timothy W. Markison |
| 7,555,059 | LOW POWER DISTRIBUTED TRANSMITTER | 11-01-2006 | 11/591,405 | Mathew A. Rybicki<br>Michael D. Cave<br>Michael R. May<br>Timothy W. Markison |
| 8,117,370 | IC FOR HANDHELD COMPUTING UNIT OF A COMPUTING DEVICE | 02-06-2008 | 12/026,689 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,064,952 | A/V CONTROL FOR A COMPUTING DEVICE WITH HANDHELD AND EXTENDED COMPUTING UNITS | 02-06-2008 | 12/026,704 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,151,100 | OPERATING SYSTEM FOR A COMPUTING DEVICE WITH HANDHELD AND EXTENDED COMPUTING UNITS | 02-06-2008 | 12/026,731 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 7,895,365 | FILE STORAGE FOR A COMPUTING DEVICE WITH HANDHELD AND EXTENDED COMPUTING UNITS | 02-06-2008 | 12/026,748 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,238,275 | IC WITH MMW TRANSCEIVER COMMUNICATIONS | 08-30-2008 | 12/202,255 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8438322 | PROCESSING MODULE WITH MILLIMETER WAVE TRANSCEIVER INTERCONNECTION | 08-30-2008 | 12/202,256 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,280,303 | DISTRIBUTED DIGITAL SIGNAL PROCESSOR | 08-30-2008 | 12/202,257 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,175,108 | WIRELESSLY CONFIGURABLE MEMORY DEVICE | 08-30-2008 | 12/202,260 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,254,319 | WIRELESS PROGRAMMABLE LOGIC DEVICE | 09-23-2008 | 12/236,272 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |

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| 8,239,650 | WIRELESSLY CONFIGURABLE MEMORY DEVICE ADDRESSING | 09-23-2008 | 12/236,294 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,204,075 | INTER-DEVICE WIRELESS COMMUNICATION FOR INTRA-DEVICE COMMUNICATIONS | 04-30-2009 | 12/433,849 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8,125,950 | APPARATUS FOR WIRELESSLY MANAGING RESOURCES | 05-30-2009 | 12/475,504 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |
| 8949695 | METHOD AND APPARATUS FOR NESTED DISPERSED STORAGE | 02-25-2010 | 12/712,773 | Gary W. Grube<br>Timothy W. Markison |
| 9047217 | NESTED DISTRIBUTED STORAGE UNIT AND APPLICATIONS THEREOF | 02-25-2010 | 12/712,842 | Gary W. Grube<br>Timothy W. Markison |
| 8533424 | COMPUTING SYSTEM UTILIZING DISPERSED STORAGE | 04-06-2010 | 12/755,181 | Gary W. Grube<br>Timothy W. Markison |
| 8352719 | COMPUTING DEVICE BOOTING UTILIZING DISPERSED STORAGE | 04-06-2010 | 12/755,200 | Gary W. Grube<br>Timothy W. Markison |
| 8448016 | COMPUTING CORE APPLICATION ACCESS UTILIZING DISPERSED STORAGE | 04-06-2010 | 12/755,225 | Gary W. Grube<br>Timothy W. Markison |
| 8527838 | MEMORY CONTROLLER UTILIZING AN ERROR CODING DISPERSAL FUNCTION | 04-06-2010 | 12/755,232 | Gary W. Grube<br>Timothy W. Markison |
| 8381025 | METHOD AND APPARATUS FOR DISPERSED STORAGE MEMORY DEVICE SELECTION | 05-12-2010 | 12/778,663 | Steven Mark Hoffman<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8478937 | METHOD AND APPARATUS FOR DISPERSED STORAGE MEMORY DEVICE UTILIZATION | 05-12-2010 | 12/778,680 | Gary W. Grube<br>Timothy W. Markison |
| 9448730 | METHOD AND APPARATUS FOR DISPERSED STORAGE DATA TRANSFER | 05-12-2010 | 12/778,701 | Gary W. Grube<br>Timothy W. Markison |
| 8924387 | SOCIAL NETWORKING UTILIZING A DISPERSED STORAGE NETWORK | 05-28-2010 | 12/789,459 | Gary W. Grube<br>Timothy W. Markison |
| 8402344 | METHOD AND APPARATUS FOR CONTROLLING DISPERSED STORAGE OF STREAMING DATA | 06-09-2010 | 12/797,208 | Gary W. Grube<br>Timothy W. Markison |
| 8438456 | METHOD AND APPARATUS FOR DISPERSED STORAGE OF STREAMING DATA | 06-09-2010 | 12/797,339 | Gary W. Grube<br>Timothy W. Markison |
| 8548913 | METHOD AND APPARATUS TO SECURE AN ELECTRONIC COMMERCE TRANSACTION | 06-09-2010 | 12/797,228 | Gary W. Grube<br>Timothy W. Markison |
| 8689354 | METHOD AND APPARATUS FOR ACCESSING SECURE DATA IN A DISPERSED STORAGE SYSTEM | 06-09-2010 | 12/797,165 | Gary W. Grube<br>Timothy W. Markison |
| 8307263 | METHOD AND APPARATUS FOR DISPERSED STORAGE OF STREAMING MULTI-MEDIA DATA | 06-13-2010 | 12/814,470 | Gary W. Grube<br>Timothy W. Markison |
| 8433978 | DATA DISTRIBUTION UTILIZING UNIQUE READ PARAMETERS IN A DISPERSED STORAGE SYSTEM | 07-23-2010 | 12/842,942 | Gary W. Grube<br>Timothy W. Markison |

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| 8291277 | DATA DISTRIBUTION UTILIZING UNIQUE WRITE PARAMETERS IN A DISPERSED STORAGE SYSTEM | 07-23-2010 | 12/842,949 | Timothy W. Markison<br>Gary W. Grube |
| 8522074 | INTENTIONALLY INTRODUCED STORAGE DEVIATIONS IN A DISPERSED STORAGE NETWORK | 07-23-2010 | 12/842,932 | Timothy W. Markison<br>Gary W. Grube<br>S. Christopher Gladwin<br>Alan E. Holmes<br>Wesley B. Leggette<br>Jason K. Resch |
| 8527807 | LOCALIZED DISPERSED STORAGE MEMORY SYSTEM | 07-28-2010 | 12/845,590 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 60 2010 044 887.8 | MEMORY CONTROLLER UTILIZING DISTRIBUTED STORAGE | 07-30-2010 | 10805139.2 | Gary W. Grube<br>Timothy W. Markison |
| 60 2010 054 679.9 | MEMORY CONTROLLER UTILIZING DISTRIBUTED STORAGE | 07-30-2010 | 13156630.9 | Gary W. Grube<br>Timothy W. Markison |
| 10509709 | INDIRECT STORAGE OF DATA IN A DISPERSED STORAGE SYSTEM | 08-04-2010 | 12/850,607 | Gary W. Grube<br>Timothy W. Markison |
| 8464133 | MEDIA CONTENT DISTRIBUTION IN A SOCIAL NETWORK UTILIZING DISPERSED STORAGE | 08-04-2010 | 12/850,609 | Gary W. Grube<br>Timothy W. Markison |
| 9043489 | ROUTER-BASED DISPERSED STORAGE NETWORK METHOD AND APPARATUS | 08-04-2010 | 12/850,610 | Gary W. Grube<br>Timothy W. Markison |
| 8572282 | ROUTER ASSISTED DISPERSED STORAGE NETWORK METHOD AND APPARATUS | 08-04-2010 | 12/850,611 | Gary W. Grube<br>Timothy W. Markison |
| 8688907 | LARGE SCALE SUBSCRIPTION BASED DISPERSED STORAGE NETWORK | 08-25-2010 | 12/862,878 | Gary W. Grube<br>Timothy W. Markison |
| 8458233 | DATA DE-DUPLICATION IN A DISPERSED STORAGE NETWORK UTILIZING DATA CHARACTERIZATION | 09-17-2010 | 12/885,244 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8819452 | EFFICIENT STORAGE OF ENCRYPTED DATA IN A DISPERSED STORAGE NETWORK | 09-17-2010 | 12/885,124 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8990585 | TIME BASED DISPERSED STORAGE ACCESS | 09-20-2010 | 12/886,368 | Gary W. Grube<br>Timothy W. Markison |
| 8762343 | DISPERSED STORAGE OF SOFTWARE | 10-12-2010 | 12/902,684 | Gary W. Grube<br>Timothy W. Markison |

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| 8352831 | DIGITAL CONTENT DISTRIBUTED STORAGE | 10-13-2010 | 12/903,781 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9462316 | DIGITAL CONTENT RETRIEVAL UTILIZING DISPERSED STORAGE | 10-13-2010 | 12/903,212 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8522113 | SELECTING STORAGE FACILITIES AND DISPERSAL PARAMETERS IN A DISPERSED STORAGE NETWORK | 11-09-2010 | 12/942,692 | Gary W. Grube<br>Timothy W. Markison |
| 60 2010 045 630.7 | DATA DE-DUPLICATION IN A DISPERSED STORAGE NETWORK UTILIZING DATA CHARACTERIZATION | 11-23-2010 | 10833828.6 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8885821 | SEQUENCING ENCODED DATA SLICES | 11-28-2010 | 12/954,875 | Gary W. Grube<br>Timothy W. Markison |
| 8649521 | OBFUSCATION OF SEQUENCED ENCODED DATA SLICES | 11-28-2010 | 12/954,884 | Gary W. Grube<br>Timothy W. Markison |
| 8938013 | DISPERSAL OF PRIORITY DATA IN A DISPERSED STORAGE NETWORK | 12-31-2010 | 12/983,209 | Gary W. Grube<br>Timothy W. Markison |
| 9311184 | STORING RAID DATA AS ENCODED DATA SLICES IN A DISPERSED STORAGE NETWORK | 12-31-2010 | 12/983,226 | Gary W. Grube<br>Timothy W. Markison |
| 8725940 | DISTRIBUTEDLY STORING RAID DATA IN A RAID MEMORY AND A DISPERSED STORAGE NETWORK MEMORY | 12-31-2010 | 12/983,232 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison |
| 8707091 | FAILSAFE DIRECTORY FILE SYSTEM IN A DISPERSED STORAGE NETWORK | 02-04-2011 | 13/021,657 | S. Christopher Gladwin<br>Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison |
| 8566354 | STORAGE AND RETRIEVAL OF REQUIRED SLICES IN A DISPERSED STORAGE NETWORK | 02-04-2011 | 13/021,537 | Gary W. Grube<br>Timothy W. Markison |
| 9063881 | SLICE RETRIEVAL IN ACCORDANCE WITH AN ACCESS SEQUENCE IN A DISPERSED STORAGE NETWORK | 02-04-2011 | 13/021,552 | Gary W. Grube<br>Timothy W. Markison |
| 8898513 | Storing Data In Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,074 | Gary W. Grube<br>Timothy W. Markison |

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| 8521697 | Rebuilding Data in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,094 | Gary W. Grube<br>Timothy W. Markison |
| 8683259 | Accessing Data in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,103 | Gary W. Grube<br>Timothy W. Markison |
| 8707088 | Reconfiguring Data Storage in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,118 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8626871 | Accessing a Global Vault in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,127 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8959597 | Entity Registration in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,135 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8683205 | Accessing Data Utilizing Entity Registration in Multiple Dispersed Storage Networks | 05-11-2011 | 13/105,136 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8612831 | ACCESSING DATA STORED IN A DISPERSED STORAGE MEMORY | 06-06-2011 | 13/154,167 | Gary W. Grube<br>Timothy W. Markison |
| 8555142 | VERIFYING INTEGRITY OF DATA STORED IN A DISPERSED STORAGE MEMORY | 06-06-2011 | 13/154,181 | Gary W. Grube<br>Timothy W. Markison |
| 8621580 | RETRIEVING ACCESS INFORMATION IN A DISPERSED STORAGE NETWORK | 08-04-2011 | 13/197,998 | Jason K. Resch<br>Gary W. Grube<br>S. Christopher Gladwin<br>Thomas F. Shirley, Jr.<br>Timothy W. Markison |
| 10193689 | STORING ACCESS INFORMATION IN A DISPERSED STORAGE NETWORK | 08-04-2011 | 13/198,078 | Jason K. Resch<br>Gary W. Grube<br>S. Christopher Gladwin<br>Thomas F. Shirley, Jr.<br>Timothy W. Markison |
| 8621271 | REPROVISIONING A MEMORY DEVICE INTO A DISPERSED STORAGE NETWORK MEMORY | 08-05-2011 | 13/204,039 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 8762793 | MIGRATING ENCODED DATA SLICES FROM A RE-PROVISIONED MEMORY DEVICE OF A DISPERSED STORAGE NETWORK MEMORY | 08-05-2011 | 13/204,050 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Ilya Volvovski<br>Manish Motwani |
| 8904226 | MIGRATING STORED COPIES OF A FILE TO STORED ENCODED DATA SLICES | 08-05-2011 | 13/204,057 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |

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| 10157002 | MIGRATING AN ENCODED DATA SLICE BASED ON AN END-OF-LIFE MEMORY LEVEL OF A MEMORY DEVICE | 08-05-2011 | 13/204,061 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison<br>Ilya Volvovski<br>Manish Motwani |
| 8612821 | DATA TRANSMISSION UTILIZING ROUTE SELECTION AND DISPERSED STORAGE ERROR ENCODING | 10-03-2011 | 13/251,587 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 8918693 | DATA TRANSMISSION UTILIZING DATA PROCESSING AND DISPERSED STORAGE ERROR ENCODING | 10-03-2011 | 13/251,618 | Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Jason K. Resch |
| 8707105 | UPDATING A SET OF MEMORY DEVICES IN A DISPERSED STORAGE NETWORK | 10-04-2011 | 13/252,410 | Gary W. Grube<br>Timothy W. Markison |
| 9483398 | PARTITIONING DATA FOR STORAGE IN A DISPERSED STORAGE NETWORK | 11-07-2011 | 13/291,030 | Gary W. Grube<br>Timothy W. Markison |
| 8897443 | WATERMARKING SLICES STORED IN A DISPERSED STORAGE NETWORK | 12-01-2011 | 13/309,353 | Gary W. Grube<br>Timothy W. Markison |
| 8683231 | OBFUSCATING DATA STORED IN A DISPERSED STORAGE NETWORK | 12-01-2011 | 13/309,432 | Gary W. Grube<br>Timothy W. Markison |
| 9319463 | REPRODUCING DATA FROM OBFUSCATED DATA RETRIEVED FROM A DISPERSED STORAGE NETWORK | 12-01-2011 | 13/309,469 | Gary W. Grube<br>Timothy W. Markison |
| 9081714 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO STORE DATA IN A DISPERSED STORAGE NETWORK MEMORY | 01-10-2012 | 13/347,140 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 9081715 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO RETRIEVE DATA FROM A DISPERSED STORAGE NETWORK MEMORY | 01-10-2012 | 13/347,204 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |

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| 8726127 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO ACCESS A DISPERSED STORAGE NETWORK MEMORY | 01-10-2012 | 13/347,266 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 10402268 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO ACQUIRE DIGITAL CONTENT FROM A DIGITAL CONTENT PROVIDER | 01-10-2012 | 13/347,334 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 8938893 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 01-23-2012 | 13/355,778 | Michael R. Adair<br>Timothy W. Markison |
| 10674786 | ATHLETIC POSITIONING APPARATUS INCLUDING A HEEL PLATFORM AND APPLICATIONS THEREOF | 01-23-2012 | 13/355,801 | Michael R. Adair<br>Timothy W. Markison |
| 60 2012 060 576.6 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO STORE DATA IN A DISPERSED STORAGE NETWORK MEMORY | 01-31-2012 | 12741687.3 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 10102063 | TRANSFERRING DATA UTILIZING A TRANSFER TOKEN MODULE | 02-14-2012 | 13/372,628 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 8910022 | RETRIEVAL OF ENCODED DATA SLICES AND ENCODED INSTRUCTION SLICES BY A COMPUTING DEVICE | 02-14-2012 | 13/372,650 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 8843803 | UTILIZING LOCAL MEMORY AND DISPERSED STORAGE MEMORY TO ACCESS ENCODED DATA SLICES | 03-06-2012 | 13/413,436 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8880978 | UTILIZING A LOCAL AREA NETWORK MEMORY AND A DISPERSED STORAGE NETWORK MEMORY TO ACCESS DATA | 03-06-2012 | 13/413,469 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8621175 | WIRELESSLY CONFIGURABLE MEMORY DEVICE | 03-26-2012 | 13/429,685 | Ahmadreza NMI Rofougaran<br>Timothy W. Markison |

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| 10452836 | RETRIEVING A HYPERTEXT MARKUP LANGUAGE FILE FROM A DISPERSED STORAGE NETWORK MEMORY | 04-18-2012 | 13/450,000 | Gary W. Grube<br>Timothy W. Markison |
| 9292682 | ACCESSING A SECOND WEB PAGE FROM A DISPERSED STORAGE NETWORK MEMORY BASED ON A FIRST WEB PAGE SELECTION | 04-18-2012 | 13/450,034 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 8707393 | PROVIDING DISPERSED STORAGE NETWORK LOCATION INFORMATION OF A HYPERTEXT MARKUP LANGUAGE FILE | 04-18-2012 | 13/450,055 | Gary W. Grube<br>Timothy W. Markison |
| 9141458 | ADJUSTING A DATA STORAGE ADDRESS MAPPING IN A MAINTENANCE FREE STORAGE CONTAINER | 04-18-2012 | 13/450,186 | Gary W. Grube<br>Timothy W. Markison |
| 8996910 | ASSIGNING A DISPERSED STORAGE NETWORK ADDRESS RANGE IN A MAINTENANCE FREE STORAGE CONTAINER | 04-18-2012 | 13/450,198 | S. Christopher Gladwin<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8954787 | ESTABLISHING TRUST IN A MAINTENANCE FREE STORAGE CONTAINER | 04-18-2012 | 13/450,212 | S. Christopher Gladwin<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8762479 | DISTRIBUTING MULTI-MEDIA CONTENT TO A PLURALITY OF POTENTIAL ACCESSING DEVICES | 05-04-2012 | 13/464,166 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 9560133 | ACQUIRING MULTI-MEDIA CONTENT | 05-04-2012 | 13/464,272 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 9460148 | COMPLETING DISTRIBUTION OF MULTI-MEDIA CONTENT TO AN ACCESSING DEVICE | 06-20-2012 | 13/527,785 | Gary W. Grube<br>S. Christopher Gladwin<br>Timothy W. Markison |
| 8762770 | Distribution of a customized preview of multi-media content | 06-20-2012 | 13/527,819 | Gary W. Grube<br>S. Christopher Gladwin<br>Timothy W. Markison |
| 9244770 | RESPONDING TO A MAINTENANCE FREE STORAGE CONTAINER SECURITY THREAT | 06-20-2012 | 13/527,881 | S. Christopher Gladwin<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 8527828 | DATA DISTRIBUTION UTILIZING UNIQUE WRITE PARAMETERS IN A DISPERSED STORAGE SYSTEM | 07-02-2012 | 13/540,289 | Timothy W. Markison<br>Gary W. Grube |
| 8661224 | WIRELESSLY CONFIGURABLE MEMORY DEVICE ADDRESSING | 07-05-2012 | 13/542,284 | Ahmadreza Rofougaran<br>Timothy W. Markison |
| 8930649 | CONCURRENT CODING OF DATA STREAMS | 08-02-2012 | 13/565,562 | Gary W. Grube<br>Timothy W. Markison |
| 8751894 | Concurrent Decoding of Data Streams | 08-02-2012 | 13/565,607 | Gary W. Grube<br>Timothy W. Markison |

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| 9213742 | Time Aligned Transmission of Concurrently Coded Data Streams | 08-02-2012 | 13/565,636 | Gary W. Grube<br>Timothy W. Markison |
| 8882615 | REPLACEABLE SECTIONS OF A PITCHING MOUND AND APPLICATIONS THEREOF | 08-23-2012 | 13/593,360 | Michael R. Adair<br>Timothy W. Markison |
| 8677214 | Encoding Data Utilizing a Zero Information Gain Function | 09-12-2012 | 13/611,962 | Gary W. Grube<br>Timothy W. Markison |
| 8782494 | Reproducing Data Utilizing a Zero Information Gain Function | 09-12-2012 | 13/612,043 | Gary W. Grube<br>Timothy W. Markison |
| 8856617 | Sending a Zero Information Gain Formatted Encoded Data Slice | 09-12-2012 | 13/612,116 | Gary W. Grube<br>Timothy W. Markison |
| 8578147 | Computing device booting utilizing dispersed storage | 10-05-2012 | 13/645,703 | Gary W. Grube<br>Timothy W. Markison |
| 9798616 | Wirelessly Sending a Set of Encoded Data Slices | 10-09-2012 | 13/647,518 | Gary W. Grube<br>Timothy W. Markison |
| 9400714 | Wirelessly Communicating a Data File | 10-09-2012 | 13/647,528 | Gary W. Grube<br>Timothy W. Markison |
| 8839368 | Acquiring a Trusted Set of Encoded Data Slices | 10-09-2012 | 13/647,533 | Gary W. Grube<br>Timothy W. Markison |
| 8848906 | Encrypting Data for Storage in a Dispersed Storage Network | 11-27-2012 | 13/686,827 | Gary W. Grube<br>Timothy W. Markison |
| 10140177 | TRANSFERRING A PARTIAL TASK IN A DISTRIBUTED COMPUTING SYSTEM | 12-06-2012 | 13/706,991 | Gary W. Grube<br>Timothy W. Markison |
| 9203902 | SECURELY AND RELIABLY STORING DATA IN A DISPERSED STORAGE NETWORK | 12-06-2012 | 13/707,153 | Gary W. Grube<br>Timothy W. Markison |
| 9203901 | EFFICIENTLY STORING DATA IN A DISPERSED STORAGE NETWORK | 12-06-2012 | 13/707,118 | Gary W. Grube<br>Timothy W. Markison |
| 8882599 | INTERACTIVE GAMING UTILIZING A DISPERSED STORAGE NETWORK | 12-11-2012 | 13/711,295 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 8612827 | DIGITAL CONTENT DISTRIBUTION UTILIZING DISPERSED STORAGE | 01-08-2013 | 13/736,856 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9195684 | Redundant Task Execution in a Distributed Storage and Task Network | 01-29-2013 | 13/753,404 | Gary W. Grube<br>Timothy W. Markison |
| 9588994 | TRANSFERRING TASK EXECUTION IN A DISTRIBUTED STORAGE AND TASK NETWORK | 01-29-2013 | 13/753,418 | Gary W. Grube<br>Timothy W. Markison |
| 8612796 | Computing Core Application Access Utilizing Dispersed Storage | 01-29-2013 | 13/753,432 | Gary W. Grube<br>Timothy W. Markison |
| 8621265 | Computing Core Application Access Utilizing Dispersed Storage | 01-29-2013 | 13/753,444 | Gary W. Grube<br>Timothy W. Markison |

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| 8726071 | Localized Dispersed Storage Memory System | 02-27-2013 | 13/779,452 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 10209903 | Method and Apparatus for Dispersed Storage Memory Device Utilization | 02-27-2013 | 13/779,469 | Gary W. Grube<br>Timothy W. Markison |
| 9141468 | MANAGING MEMORY UTILIZATION IN A DISTRIBUTED STORAGE AND TASK NETWORK | 04-18-2013 | 13/865,679 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 8631592 | Adjustable Athletic Positioning Apparatus and Applications Thereof | 04-22-2013 | 13/867,406 | Michael R. Adair<br>Timothy W. Markison |
| 10299533 | Athletic Shoe Incorporating an Athletic Positioning Sole | 04-22-2013 | 13/867,436 | Michael R. Adair<br>Timothy W. Markison |
| 10510116 | SYSTEM AND METHOD FOR MODIFYING VARIOUS TYPES OF ASSETS | 04-23-2013 | 13/868,599 | Thomas W. Becker<br>John Moran<br>Mike Barrett<br>Gary W. Grube<br>Timothy W. Markison |
| 8667371 | DATA DISTRIBUTION UTILIZING UNIQUE READ PARAMETERS IN A DISPERSED STORAGE SYSTEM | 04-25-2013 | 13/870,138 | Gary W. Grube<br>Timothy W. Markison |
| 8595596 | METHOD AND APPARATUS FOR DISPERSED STORAGE OF STREAMING DATA | 04-25-2013 | 13/870,194 | Gary W. Grube<br>Timothy W. Markison |
| 9110833 | NON-TEMPORARILY STORING TEMPORARILY STORED DATA IN A DISPERSED STORAGE NETWORK | 05-08-2013 | 13/889,557 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 8935761 | ACCESSING STORAGE NODES IN AN ON-LINE MEDIA STORAGE SYSTEM | 05-08-2013 | 13/889,942 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 8762346 | DATA DE-DUPLICATION IN A DISPERSED STORAGE NETWORK UTILIZING DATA CHARACTERIZATION | 06-03-2013 | 13/908,516 | S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |

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| 9537609 | STORING A STREAM OF DATA IN A DISPERSED STORAGE NETWORK | 06-17-2013 | 13/919,566 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 9258177 | STORING A DATA STREAM IN A SET OF STORAGE DEVICES | 06-17-2013 | 13/919,673 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 9545129 | BASEBALL SHOE WITH CLEAT PATTERN FOR PITCHING | 07-05-2013 | 13/935,926 | Michael R. Adair<br>Timothy W. Markison |
| 8707586 | ATHLETIC SHOE WITH ATHLETIC POSITIONING CLEAT PATTERN | 07-05-2013 | 13/935,992 | Michael R. Adair<br>Timothy W. Markison |
| 9295300 | ATHLETIC SHOE WITH ATHLETIC POSITIONING PATTERN | 07-05-2013 | 13/936,029 | Michael R. Adair<br>Timothy W. Markison |
| 9015499 | VERIFYING DATA INTEGRITY UTILIZING DISPERSED STORAGE | 08-05-2013 | 13/959,688 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9405607 | MEMORY CONTROLLER UTILIZING AN ERROR CODING DISPERSAL FUNCTION | 08-30-2013 | 14/014,692 | Gary W. Grube<br>Timothy W. Markison |
| 8977801 | COMPUTING SYSTEM UTILIZING DISPERSED STORAGE | 09-09-2013 | 14/021,098 | Gary W. Grube<br>Timothy W. Markison |
| 9454431 | MEMORY SELECTION FOR SLICE STORAGE IN A DISPERSED STORAGE NETWORK | 09-24-2013 | 14/035,433 | Gary W. Grube<br>Timothy W. Markison |
| 8966009 | ROUTER ASSISTED DISPERSED STORAGE NETWORK METHOD AND APPARATUS | 10-25-2013 | 14/062,974 | Gary W. Grube<br>Timothy W. Markison |
| 9684558 | ACCESSING DATA STORED IN A DISPERSED STORAGE MEMORY | 12-16-2013 | 14/107,157 | Gary W. Grube<br>Timothy W. Markison |
| 8839068 | DATA TRANSMISSION UTILIZING ROUTE SELECTION AND DISPERSED STORAGE ERROR ENCODING | 12-16-2013 | 14/107,204 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 8972774 | COMPUTING CORE APPLICATION ACCESS UTILIZING DISPERSED STORAGE | 12-30-2013 | 14/143,524 | Gary W. Grube<br>Timothy W. Markison |

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| 9094402 | RETRIEVING ACCESS INFORMATION IN A DISPERSED STORAGE NETWORK | 12-30-2013 | 14/143,583 | Jason K. Resch<br>Gary W. Grube<br>S. Christopher Gladwin<br>Thomas F. Shirley, Jr.<br>Timothy W. Markison |
| 10092061 | ADJUSTABLE ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 01-21-2014 | 14/159,860 | Michael R. Adair<br>Timothy W. Markison |
| 10075523 | EFFICIENT STORAGE OF DATA IN A DISPERSED STORAGE NETWORK | 02-04-2014 | 14/172,140 | Ilya Volvovski<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Thomas F. Shirley, Jr.<br>Greg R. Dhuse<br>Manish Motwani<br>Andrew D. Baptist<br>Wesley B. Leggette |
| 9049463 | DATA DISTRIBUTION UTILIZING UNIQUE READ PARAMETERS IN A DISPERSED STORAGE SYSTEM | 03-03-2014 | 14/194,961 | Gary W. Grube<br>Timothy W. Markison |
| 10216576 | ENCODING DATA UTILIZING A ZERO INFORMATION GAIN FUNCTION | 03-18-2014 | 14/217,662 | Gary W. Grube<br>Timothy W. Markison |
| 9443099 | METHOD AND APPARATUS FOR ACCESSING SECURE DATA IN A DISPERSED STORAGE SYSTEM | 03-31-2014 | 14/230,169 | Gary W. Grube<br>Timothy W. Markison |
| 9268641 | LARGE SCALE SUBSCRIPTION BASED DISPERSED STORAGE NETWORK | 03-31-2014 | 14/230,253 | Gary W. Grube<br>Timothy W. Markison |
| 9424132 | ADJUSTING DISPERSED STORAGE NETWORK TRAFFIC DUE TO REBUILDING | 04-18-2014 | 14/256,205 | Ilya Volvovski<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Thomas F. Shirley, Jr.<br>Greg R. Dhuse<br>Manish Motwani<br>Andrew D. Baptist<br>Wesley B. Leggette |
| 9122596 | UPDATING A SET OF MEMORY DEVICES IN A DISPERSED STORAGE NETWORK | 04-21-2014 | 14/257,398 | Gary W. Grube<br>Timothy W. Markison |
| 9116626 | FAILSAFE DIRECTORY FILE SYSTEM IN A DISPERSED STORAGE NETWORK | 04-21-2014 | 14/257,341 | S. Christopher Gladwin<br>Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison |
| 9122628 | DISTRIBUTEDLY STORING RAID DATA IN A RAID MEMORY AND A DISPERSED STORAGE NETWORK MEMORY | 05-12-2014 | 14/275,814 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison |

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| 9431055 | LOCALIZED DISPERSED STORAGE MEMORY SYSTEM | 05-12-2014 | 14/275,560 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 8966341 | UTILIZING A DISPERSED STORAGE NETWORK ACCESS TOKEN MODULE TO ACCESS A DISPERSED STORAGE NETWORK MEMORY | 05-13-2014 | 14/276,006 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 8977931 | Method and apparatus for nested dispersed storage | 05-27-2014 | 14/287,340 | Gary W. Grube<br>Timothy W. Markison |
| 9661356 | DISTRIBUTION OF UNIQUE COPIES OF BROADCAST DATA UTILIZING FAULT-TOLERANT RETRIEVAL FROM DISPERSED STORAGE | 05-28-2014 | 14/289,064 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Jason K. Resch<br>Wesley B. Leggette<br>Alan E. Holmes |
| 9195408 | HIGHLY AUTONOMOUS DISPERSED STORAGE SYSTEM RETRIEVAL METHOD | 05-29-2014 | 14/290,549 | Gary W. Grube<br>Timothy W. Markison |
| 9607168 | Obfuscating a Transaction in a Dispersed Storage System | 05-30-2014 | 14/292,318 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9823861 | METHOD AND APPARATUS FOR SELECTING STORAGE UNITS TO STORE DISPERSED STORAGE DATA | 05-30-2014 | 14/292,585 | Gary W. Grube<br>Timothy W. Markison |
| 9081675 | ENCODING DATA IN A DISPERSED STORAGE NETWORK | 06-11-2014 | 14/302,377 | Gary W. Grube<br>Timothy W. Markison |
| 9098409 | DETECTING A COMPUTING SYSTEM BASIC INPUT/OUTPUT SYSTEM ISSUE | 06-11-2014 | 14/302,390 | Gary W. Grube<br>Timothy W. Markison |
| 9086964 | UPDATING USER DEVICE CONTENT DATA USING A DISPERSED STORAGE NETWORK | 06-11-2014 | 14/302,397 | Gary W. Grube<br>Timothy W. Markison |
| 9489533 | EFFICIENT MEMORY UTILIZATION IN A DISPERSED STORAGE SYSTEM | 06-23-2014 | 14/312,550 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Jason K. Resch<br>Wesley B. Leggette<br>Andrew D. Baptist |
| 9094428 | DISTRIBUTING MULTI-MEDIA CONTENT TO A PLURALITY OF POTENTIAL ACCESSING DEVICES | 06-24-2014 | 14/312,823 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 9021273 | EFFICIENT STORAGE OF ENCRYPTED DATA IN A DISPERSED STORAGE NETWORK | 06-26-2014 | 14/316,336 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch |

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| 9507735 | DIGITAL CONTENT RETRIEVAL UTILIZING DISPERSED STORAGE | 06-27-2014 | 14/318,347 | Gary W. Grube<br>Timothy W. Markison |
| 9344500 | Distributed Storage Time Synchronization Based on Storage Delay | 06-30-2014 | 14/319,282 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 10015141 | DISPERSED DATA STORAGE IN A VPN GROUP OF DEVICES | 07-10-2014 | 14/328,311 | Gary W. Grube<br>Timothy W. Markison |
| 9996548 | DISPERSED STORAGE USING LOCALIZED PEER-TO-PEER CAPABLE WIRELESS DEVICES IN A PEER-TO-PEER OR FEMTO CELL SUPPORTED CARRIER SERVED FASHION | 07-11-2014 | 14/328,904 | Gary W. Grube<br>Timothy W. Markison |
| 9413393 | ENCODING MULTI-MEDIA CONTENT FOR A CENTRALIZED DIGITAL VIDEO STORAGE SYSTEM | 07-17-2014 | 14/333,968 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch |
| 9043616 | EFFICIENT STORAGE OF ENCRYPTED DATA IN A DISPERSED STORAGE NETWORK | 07-21-2014 | 14/336,189 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch |
| 9043548 | Streaming Content Storage | 08-01-2014 | 14/449,549 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 10154034 | COOPERATIVE DATA ACCESS REQUEST AUTHORIZATION IN A DISPERSED STORAGE NETWORK | 08-07-2014 | 14/454,013 | Gary W. Grube<br>Timothy W. Markison |
| 9342406 | DISPERSED STORAGE RE-DISPERSION METHOD BASED ON A FAILURE | 08-18-2014 | 14/461,824 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9128870 | SENDING A ZERO INFORMATION GAIN FORMATTED ENCODED DATA SLICE | 09-08-2014 | 14/480,139 | Gary W. Grube<br>Timothy W. Markison |
| 9158625 | ACQUIRING A TRUSTED SET OF ENCODED DATA SLICES | 09-09-2014 | 14/480,882 | Gary W. Grube<br>Timothy W. Markison |
| 9110834 | UTILIZING LOCAL MEMORY AND DISPERSED STORAGE MEMORY TO ACCESS ENCODED DATA SLICES | 09-09-2014 | 14/480,945 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9135114 | ADJUSTING A DISPERSAL PARAMETER OF DISPERSEDLY STORED DATA | 09-09-2014 | 14/481,245 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |

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| 9727418 | CONFIGURING A GENERIC COMPUTING DEVICE UTILIZING SPECIFIC COMPUTING DEVICE OPERATION INFORMATION | 09-10-2014 | 14/482,509 | Gary W. Grube<br>Timothy W. Markison<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Wesley B. Leggette |
| 9442800 | DATA MIGRATION BETWEEN A RAID MEMORY AND A DISPERSED STORAGE NETWORK MEMORY | 09-10-2014 | 14/482,633 | Andrew D. Baptist<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9495240 | ENCRYPTING DATA FOR STORAGE IN A DISPERSED STORAGE NETWORK | 09-29-2014 | 14/499,570 | Gary W. Grube<br>Timothy W. Markison |
| 9208026 | UTILIZING A LOCAL AREA NETWORK MEMORY AND A DISPERSED STORAGE NETWORK MEMORY TO ACCESS DATA | 10-03-2014 | 14/505,835 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9381419 | REPLACEABLE SECTIONS OF A PITCHING MOUND AND APPLICATIONS THEREOF | 10-03-2014 | 14/506,299 | Michael R. Adair<br>Timothy W. Markison |
| 9313293 | SOCIAL NETWORKING UTILIZING A DISPERSED STORAGE NETWORK | 11-13-2014 | 14/540,305 | Gary W. Grube<br>Timothy W. Markison |
| 9961957 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 12-08-2014 | 14/562,986 | Michael R. Adair<br>Timothy W. Markison |
| 9603412 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 12-08-2014 | 14/563,027 | Michael R. Adair<br>Timothy W. Markison |
| 10271611 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 12-08-2014 | 14/563,135 | Michael R. Adair<br>Timothy W. Markison |
| 9717302 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 12-08-2014 | 14/563,100 | Michael R. Adair<br>Timothy W. Markison |
| 9357009 | ENTITY REGISTRATION IN MULTIPLE DISPERSED STORAGE NETWORKS | 12-31-2014 | 14/587,781 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9571577 | TIME BASED DISPERSED STORAGE ACCESS | 02-03-2015 | 14/612,422 | Gary W. Grube<br>Timothy W. Markison |
| 9843412 | OPTIMIZING ROUTING OF DATA ACROSS A COMMUNICATIONS NETWORK | 02-06-2015 | 14/615,655 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |

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| 9292385 | Transforming Data in a Distributed Storage and Task Network | 03-02-2015 | 14/635,178 | Wesley B. Leggette<br>Andrew D. Baptist<br>Greg R. Dhuse<br>Jason K. Resch<br>Ilya Volvovski<br>Manish Motwani<br>S. Christopher Gladwin<br>Gary W. Grube<br>Thomas F. Shirley, Jr.<br>Timothy W. Markison |
| 9298550 | ASSIGNING A DISPERSED STORAGE NETWORK ADDRESS RANGE IN A MAINTENANCE FREE STORAGE CONTAINER | 03-16-2015 | 14/658,725 | S. Christopher Gladwin<br>Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 10095872 | ACCESSING DATA BASED ON A DISPERSED STORAGE NETWORK REBUILDING ISSUE | 03-31-2015 | 14/675,183 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 10152601 | RELIABLY RECOVERING STORED DATA IN A DISPERSED STORAGE NETWORK | 03-31-2015 | 14/675,360 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 9208331 | EFFICIENT STORAGE OF ENCRYPTED DATA IN A DISPERSED STORAGE NETWORK | 04-07-2015 | 14/680,298 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch |

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| 9606867 | MAINTAINING DATA STORAGE IN ACCORDANCE WITH AN ACCESS METRIC | 04-07-2015 | 14/680,459 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 9747457 | EFFICIENT STORAGE OF ENCRYPTED DATA IN A DISPERSED STORAGE NETWORK | 05-06-2015 | 14/705,752 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Kumar Abhijeet<br>Greg R. Dhuse<br>Jason K. Resch |
| 9407292 | NON-TEMPORARILY STORING TEMPORARILY STORED DATA IN A DISPERSED STORAGE NETWORK | 07-07-2015 | 14/792,898 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 10610101 | ARM FATIGUE ANALYSIS SYSTEM | 07-29-2015 | 14/812,868 | Gary McCoy<br>Timothy W. Markison |
| 9471426 | SENDING A ZERO INFORMATION GAIN FORMATTED ENCODED DATA SLICE | 08-05-2015 | 14/819,113 | Gary W. Grube<br>Timothy W. Markison |
| 9501358 | ADJUSTING A DISPERSAL PARAMETER OF DISPERSEDLY STORED DATA | 09-01-2015 | 14/842,129 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 10120755 | MANAGING MEMORY UTILIZATION IN A DISTRIBUTED STORAGE AND TASK NETWORK | 09-02-2015 | 14/843,092 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9830222 | ADJUSTING A DATA STORAGE ADDRESS MAPPING IN A MAINTENANCE FREE STORAGE CONTAINER | 09-03-2015 | 14/844,145 | Gary W. Grube<br>Timothy W. Markison |
| 9471427 | UTILIZING A LOCAL AREA NETWORK MEMORY AND A DISPERSED STORAGE NETWORK MEMORY TO ACCESS DATA | 11-02-2015 | 14/929,925 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9715425 | TIME ALIGNED TRANSMISSION OF CONCURRENTLY CODED DATA STREAMS | 11-30-2015 | 14/954,836 | Gary W. Grube<br>Timothy W. Markison |
| 9819447 | STORING A DATA STREAM IN A SET OF STORAGE DEVICES | 02-08-2016 | 15/017,991 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |

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| 9870795 | LOCALIZED DISPERSED STORAGE MEMORY SYSTEM | 03-30-2016 | 15/085,648 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 10049008 | STORING RAID DATA AS ENCODED DATA SLICES IN A DISPERSED STORAGE NETWORK | 04-11-2016 | 15/095,637 | Gary W. Grube<br>Timothy W. Markison |
| 10031804 | SOCIAL NETWORKING UTILIZING A DISPERSED STORAGE NETWORK | 04-11-2016 | 15/095,402 | Gary W. Grube<br>Timothy W. Markison |
| 10169146 | REPRODUCING DATA FROM OBFUSCATED DATA RETRIEVED FROM A DISPERSED STORAGE NETWORK | 04-18-2016 | 15/131,488 | Gary W. Grube<br>Timothy W. Markison |
| 10412165 | ENTITY REGISTRATION IN MULTIPLE DISPERSED STORAGE NETWORKS | 05-27-2016 | 15/167,482 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 9934091 | WIRELESSLY COMMUNICATING A DATA FILE | 06-23-2016 | 15/190,925 | Gary W. Grube<br>Timothy W. Markison |
| 10173123 | MODULAR PITCHING MOUND WITH REPLACEABLE TRAYS | 07-04-2016 | 15/201,531 | Timothy W. Markison |
| 10200156 | STORING A STREAM OF DATA IN A DISPERSED STORAGE NETWORK | 07-18-2016 | 15/213,329 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 9672108 | DISPERSED STORAGE NETWORK (DSN) AND SYSTEM WITH IMPROVED SECURITY | 07-20-2016 | 15/214,970 | Kumar Abhijeet<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 10102068 | NON-TEMPORARILY STORING TEMPORARILY STORED DATA IN A DISPERSED STORAGE NETWORK | 08-01-2016 | 15/224,839 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 10007574 | MEMORY CONTROLLER UTILIZING AN ERROR CODING DISPERSAL FUNCTION | 08-01-2016 | 15/224,784 | Gary W. Grube<br>Timothy W. Markison |

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| 10108493 | ADJUSTING DISPERSED STORAGE NETWORK TRAFFIC DUE TO REBUILDING | 08-22-2016 | 15/242,858 | Ilya Volvovski<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Thomas F. Shirley, Jr.<br>Greg R. Dhuse<br>Manish Motwani<br>Andrew D. Baptist<br>Wesley B. Leggette |
| 9672109 | ADAPTIVE DISPERSED STORAGE NETWORK (DSN) AND SYSTEM | 08-29-2016 | 15/250,013 | Kumar Abhijeet<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 10372350 | SHARED OWNERSHIP OF NAMESPACE RANGES | 10-05-2016 | 15/285,582 | Timothy W. Markison<br>Jason K. Resch |
| 9842063 | ENCRYPTING DATA FOR STORAGE IN A DISPERSED STORAGE NETWORK | 11-07-2016 | 15/345,262 | Gary W. Grube<br>Timothy W. Markison |
| 10445006 | ADJUSTING A DISPERSAL PARAMETER OF DISPERSEDLY STORED DATA | 11-14-2016 | 15/350,762 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 10102069 | MAINTAINING DATA STORAGE IN ACCORDANCE WITH AN ACCESS METRIC | 01-06-2017 | 15/400,767 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 10394613 | TRANSFERRING TASK EXECUTION IN A DISTRIBUTED STORAGE AND TASK NETWORK | 01-10-2017 | 15/402,346 | Gary W. Grube<br>Timothy W. Markison |
| 10805042 | CREATING TRANSMISSION DATA SLICES FOR USE IN A DISPERSED STORAGE NETWORK | 02-15-2017 | 15/433,824 | Andrew D. Baptist<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Ilya Volvovski |
| 9927978 | DISPERSED STORAGE NETWORK (DSN) AND SYSTEM WITH IMPROVED SECURITY | 02-27-2017 | 15/444,104 | Kumar Abhijeet<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |

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| 9760286 | ADAPTIVE DISPERSED STORAGE NETWORK (DSN) AND SYSTEM | 03-07-2017 | 15/451,906 | Kumar Abhijeet<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 9823845 | ADAPTIVE DISPERSED STORAGE NETWORK (DSN) AND SYSTEM | 06-02-2017 | 15/612,750 | Kumar Abhijeet<br>Greg R. Dhuse<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 10235237 | DECODING DATA STREAMS IN A DISTRIBUTED STORAGE NETWORK | 06-21-2017 | 15/629,134 | Gary W. Grube<br>Timothy W. Markison |
| 10304096 | RENTING A PIPE TO A STORAGE SYSTEM | 08-11-2017 | 15/675,564 | Ilya Volvovski<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Thomas F. Shirley, Jr.<br>Greg R. Dhuse<br>Manish Motwani<br>Andrew D. Baptist<br>Wesley B. Leggette |
| 11206878 | BODY IMPACT PROTECTION SYSTEM | 08-14-2017 | 15/676,498 | Timothy W. Markison |
| 11478026 | BODY LIMB PROTECTION SYSTEM | 08-14-2017 | 15/676,976 | Timothy W. Markison |
| 10653193 | IMPACT FORCE DAMPENING AND DEFUSING STRUCTURE | 08-15-2017 | 15/677,904 | Timothy W. Markison |
| 10716342 | FORCE DEFUSING STRUCTURE | 08-15-2017 | 15/677,918 | Timothy W. Markison |
| 11246507 | WIRELESS IN-SHOE PHYSICAL ACTIVITY MONITORING APPARATUS | 08-17-2017 | 15/679,831 | Timothy W. Markison<br>Sayfe Kiaei<br>Gary McCoy |
| 11129547 | WIRELESS IN-SHOE PHYSICAL ACTIVITY MONITORING | 08-17-2017 | 15/680,027 | Timothy W. Markison<br>Sayfe Kiaei<br>Gary McCoy |
| 10213134 | WIRELESS IN-SHOE PHYSICAL ACTIVITY MONITORING IMPLEMENTATION | 08-17-2017 | 15/680,057 | Timothy W. Markison<br>Sayfe Kiaei<br>Gary McCoy |
| 10653337 | LOCAL OBJECT DETECTION SYSTEM | 08-18-2017 | 15/680,863 | Timothy W. Markison<br>Sayfe Kiaei<br>Gary McCoy |
| 10365969 | MULTIPLE WIRELESS COMMUNICATION SYSTEMS STREAM SLICES BASED ON GEOGRAPHY | 08-25-2017 | 15/687,338 | Gary W. Grube<br>Timothy W. Markison |
| 10651975 | FORWARDING DATA AMONGST COOPERATIVE DSTN PROCESSING UNITS OF A MASSIVE DATA INGESTION SYSTEM | 11-07-2017 | 15/805,811 | S. Christopher Gladwin<br>Greg R. Dhuse<br>Timothy W. Markison<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |

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| 10298957 | CONTENT-BASED ENCODING IN A MULTIPLE ROUTING PATH COMMUNICATIONS SYSTEM | 11-17-2017 | 15/817,104 | Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Jason K. Resch |
| 10949301 | PRE-POSITIONING SOCIAL MEDIA AND STREAMING DATA IN A CONTENT DISTRIBUTION SYSTEM | 01-18-2018 | 15/874,461 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 10856614 | ATHLETIC SHOE WITH PERFORMANCE FEATURES | 03-19-2018 | 15/925,550 | Timothy W. Markison<br>Jeremiah Johnston<br>Patricia M. Healy |
| 10509577 | RELIABLE STORAGE IN A DISPERSED STORAGE NETWORK | 07-11-2018 | 16/032,288 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 10977194 | SECURELY STORING RANDOM KEYS IN A DISPERSED STORAGE NETWORK | 07-20-2018 | 16/040,786 | Gary W. Grube<br>Timothy W. Markison |
| 10430276 | OPTIMAL ORDERINGS OF PROCESSING UNIT PRIORITIES IN A DISPERSED STORAGE NETWORK | 07-30-2018 | 16/048,471 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 10881168 | ATHLETIC SHOE OUTSOLE WITH GRIP AND GLIDE TREAD PATTERN | 08-24-2018 | 16/112,096 | Timothy W. Markison<br>Jeremiah Johnston<br>Patricia M. Healy |
| 10866754 | CONTENT ARCHIVING IN A DISTRIBUTED STORAGE NETWORK | 09-21-2018 | 16/137,681 | Gary W. Grube<br>Timothy W. Markison |
| 11010357 | RELIABLY RECOVERING STORED DATA IN A DISPERSED STORAGE NETWORK | 10-04-2018 | 16/151,513 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |

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| 11064760 | ADJUSTABLE ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 10-05-2018 | 16/152,538 | Michael R. Adair<br>Timothy W. Markison |
| 10678450 | MIGRATING AN ENCODED DATA SLICE BASED ON AN END-OF-LIFE MEMORY LEVEL OF A MEMORY DEVICE | 10-30-2018 | 16/174,504 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison<br>Ilya Volvovski<br>Manish Motwani |
| 10463943 | MODULAR BULLPEN MOUND WITH REPLACEABLE TRAYS | 01-03-2019 | 16/238,918 | Timothy W. Markison |
| 10574395 | STORING A STREAM OF DATA IN A DISPERSED STORAGE NETWORK | 01-04-2019 | 16/239,651 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 10684977 | LOW VOLTAGE DRIVE CIRCUIT WITH BUS ISOLATION AND METHODS FOR USE THEREWITH | 01-14-2019 | 16/246,772 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 10831690 | CHANNEL ALLOCATION AMONG LOW VOLTAGE DRIVE CIRCUITS | 01-14-2019 | 16/247,164 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11003205 | RECEIVE ANALOG TO DIGITAL CIRCUIT OF A LOW VOLTAGE DRIVE CIRCUIT DATA COMMUNICATION SYSTEM | 02-04-2019 | 16/266,953 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 10970168 | ADJUSTING DISPERSED STORAGE ERROR ENCODING PARAMETERS BASED ON PATH PERFORMANCE | 04-08-2019 | 16/378,041 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 11013291 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 04-29-2019 | 16/397,605 | Michael R. Adair<br>Timothy W. Markison |
| 11029782 | LIGHT EMITTING DIODE (LED) TOUCH DISPLAY CIRCUIT | 05-03-2019 | 16/403,200 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11555687 | Capacitive imaging glove | 08-08-2019 | 16/535,464 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |

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| 10976837 | USER INPUT PASSIVE DEVICE FOR USE WITH AN INTERACTIVE DISPLAY DEVICE | 08-20-2019 | 16/545,365 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison<br>Michael Shawn Gray<br>Garry Joel Baum |
| 11172728 | ADJUSTABLE ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 08-29-2019 | 16/554,938 | Michael R. Adair<br>Timothy W. Markison |
| 11375768 | ADJUSTABLE ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 08-29-2019 | 16/555,171 | Michael R. Adair<br>Timothy W. Markison |
| 11017845 | RAM CELL PROCESSING CIRCUIT FOR CONCURRENCY OF REFRESH AND READ | 09-11-2019 | 16/568,079 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11331545 | FORCE FOCUSING GOLF CLUB | 09-13-2019 | 16/570,548 | Timothy W. Markison |
| 10908641 | Display generated data transmission from user device to touchscreen via user | 10-09-2019 | 16/596,928 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 10828548 | MODULAR MOUND CORE | 10-15-2019 | 16/653,676 | Timothy W. Markison |
| 11221980 | LOW VOLTAGE DRIVE CIRCUIT OPERABLE TO CONVEY DATA VIA A BUS | 10-31-2019 | 16/670,370 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11789921 | SYSTEM AND METHOD FOR MODIFYING VARIOUS TYPES OF ASSETS | 12-16-2019 | 16/715,296 | Thomas W. Becker<br>John Moran<br>Mike Barrett<br>Gary W. Grube<br>Timothy W. Markison |
| 11935397 | ORGANIC & INORGANIC TEST SYSTEM | 12-30-2019 | 16/730,118 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 11101929 | Dynamically Caching Data For Storage In Storage Units Of A Content Delivery Network | 02-12-2020 | 16/789,139 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 11079888 | Sensitivity Region of Interest Processing (ROIP) for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 02-18-2020 | 16/793,078 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |

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| 11213205 | ARM FATIGUE ANALYSIS SYSTEM | 04-03-2020 | 16/839,985 | Gary McCoy<br>Timothy W. Markison |
| 11182038 | ENCODED DATA PATTERN TOUCHSCREEN SENSING SYSTEM | 04-08-2020 | 16/842,938 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Patricia M. Healy |
| 10831600 | Establishing An Operation Execution Schedule In A Storage Network | 04-21-2020 | 16/854,010 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 10733133 | LOW VOLTAGE DRIVE CIRCUIT WITH RANGE LIMITS AND METHODS FOR USE THEREWITH | 04-21-2020 | 16/854,379 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11070318 | Forwarding Data Amongst Cooperative Computing Devices Of A Massive Data Ingestion System | 04-28-2020 | 16/860,302 | S. Christopher Gladwin<br>Greg R. Dhuse<br>Timothy W. Markison<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 10826747 | LOW VOLTAGE DRIVE CIRCUIT WITH DIGITAL TO DIGITAL CONVERSION AND METHODS FOR USE THEREWITH | 05-15-2020 | 16/875,239 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11340995 | INTEGRATED CIRCUIT WITH PROGRAMMABLE INPUT/OUTPUT MODULE | 05-21-2020 | 16/879,905 | Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Timothy W. Markison |
| 11221704 | SCREEN-TO-SCREEN COMMUNICATION VIA TOUCH SENSE ELEMENTS | 05-26-2020 | 16/882,875 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 10915483 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING CHARACTERISTICS AND METHODS FOR USE THEREWITH | 05-27-2020 | 16/884,339 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |

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| 11073993 | Predicting Usable Memory | 05-28-2020 | 16/885,602 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison<br>Ilya Volvovski<br>Manish Motwani |
| 10831226 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING FREQUENCIES AND METHODS FOR USE THEREWITH | 05-28-2020 | 16/885,551 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 10884967 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE FREQUENCY CHARACTERISTICS AND METHODS FOR USE THEREWITH | 05-28-2020 | 16/885,675 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11504535 | Pacemaker operative to deliver impulses of pace signal and sense cardiac response via single conductor of pacemaker lead | 06-03-2020 | 16/891,543 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11439812 | Array operative to perform distributed/patterned sensing and/or stimulation across patient bodily section | 06-03-2020 | 16/891,591 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11327917 | LOW VOLTAGE DRIVE CIRCUIT AND COMMUNICATION SYSTEM | 06-10-2020 | 16/897,786 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Timothy W. Markison |
| 11334425 | Transmitting Synchronized Data Streams In A Distributed Storage Network | 07-06-2020 | 16/921,451 | Gary W. Grube<br>Timothy W. Markison |
| 11080138 | Storing Integrity Information in a Vast Storage System | 09-17-2020 | 17/023,971 | Gary W. Grube<br>Timothy W. Markison |
| 10956292 | Utilizing Integrity Information for Data Retrieval in a Vast Storage System | 09-17-2020 | 17/023,868 | Gary W. Grube<br>Timothy W. Markison |
| 10951457 | LOW VOLTAGE DRIVE CIRCUIT WITH DIGITAL TO DIGITAL CONVERSION AND METHODS FOR USE THEREWITH | 09-25-2020 | 17/032,748 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11054852 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING FREQUENCIES AND METHODS FOR USE THEREWITH | 10-01-2020 | 17/060,426 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11853547 | Generating Audit Record Data Files For A Transaction In A Storage Network | 10-23-2020 | 17/079,234 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |

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| 11429486 | Rebuilding Data Via Locally Decodable Redundancy in a Vast Storage Network | 10-30-2020 | 17/084,828 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 11169948 | CHANNEL ALLOCATION AMONG LOW VOLTAGE DRIVE CIRCUITS | 11-09-2020 | 17/093,101 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11559107 | ATHLETIC SHOE OUTSOLE WITH GRIP AND GLIDE TREAD PATTERN | 12-01-2020 | 17/108,235 | Timothy W. Markison<br>Jeremiah Johnston<br>Patricia M. Healy |
| 11061847 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE FREQUENCY CHARACTERISTICS AND METHODS FOR USE THEREWITH | 12-02-2020 | 17/109,894 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11416179 | Storage Unit Solicitation For Encoded Data Slice Storage | 12-08-2020 | 17/115,020 | Gary W. Grube<br>Timothy W. Markison |
| 11320860 | Display generated data transmission from user device to touchscreen via user | 12-31-2020 | 17/139,514 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11151072 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING CHARACTERISTICS AND METHODS FOR USE THEREWITH | 01-05-2021 | 17/141,531 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11360852 | Selection of Memory in a Distributed Data Storage Network | 01-18-2021 | 17/151,249 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 11704195 | Pre-Positioning Target Content in a Storage Network | 02-04-2021 | 17/167,882 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 11153143 | LOW VOLTAGE DRIVE CIRCUIT WITH DIGITAL TO DIGITAL CONVERSION AND METHODS FOR USE THEREWITH | 02-10-2021 | 17/172,310 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |

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| 11526398 | Determining An Error Encoding Function Ratio Based On Path Performance | 03-04-2021 | 17/249,539 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 11734196 | Decrypting Secure Packages In A Storage Network | 03-10-2021 | 17/197,807 | Gary W. Grube<br>Timothy W. Markison |
| 11194408 | USER INPUT PASSIVE DEVICE AND INTERACTIVE DISPLAY DEVICE TOUCHSCREEN SYSTEM | 03-17-2021 | 17/204,376 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11294420 | DATA FORMATTING CIRCUIT OF A LOW VOLTAGE DRIVE CIRCUIT DATA COMMUNICATION SYSTEM | 03-30-2021 | 17/217,822 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11269458 | DRIVE SENSE CIRCUIT FOR AN LED TOUCH PANEL | 04-06-2021 | 17/223,613 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11837279 | SINGLE CYCLE READ PROCESSING IN RAM CELL | 04-06-2021 | 17/223,267 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11922800 | Biological Test System Testing Base | 04-29-2021 | 17/244,631 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 12100290 | Biological Test System Data Processing | 04-29-2021 | 17/244,731 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 11510456 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 05-21-2021 | 17/327,054 | Michael R. Adair<br>Timothy W. Markison |
| 11630533 | Touchscreen data reception from user device via user | 05-25-2021 | 17/329,462 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11638827 | Current source drive-sense circuit (DSC) serviced pacemaker | 05-27-2021 | 17/331,949 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |

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| 12100291 | DATA PROCESSING MODULE OF A BIOLOGICAL TEST SYSTEM | 05-31-2021 | 17/303,496 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 11231735 | LOW VOLTAGE DRIVE CIRCUIT WITH OSCILLATING FREQUENCIES AND METHODS FOR USE THEREWITH | 06-03-2021 | 17/303,612 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11662915 | Parity In a Vast Storage System Using Alternate Memory | 06-24-2021 | 17/356,838 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison<br>Ilya Volvovski<br>Manish Motwani |
| 11340988 | Generating Integrity Information in a Vast Storage System | 06-29-2021 | 17/362,251 | Gary W. Grube<br>Timothy W. Markison<br>Sebastien Vas<br>Zachary J. Mark<br>Jason K. Resch |
| 11811532 | Dynamically Processing Data In A Vast Data Ingestion System | 06-30-2021 | 17/363,281 | S. Christopher Gladwin<br>Greg R. Dhuse<br>Timothy W. Markison<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 11973828 | Acquiring Security Information in a Vast Storage Network | 07-06-2021 | 17/367,854 | Jason K. Resch<br>Gary W. Grube<br>Timothy W. Markison |
| 11733818 | IDENTIFYING CAPACITIVELY COUPLED DEVICES | 07-19-2021 | 17/305,973 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Timothy W. Markison |
| 11681402 | Sensitivity Region of Interest Processing (ROIP) for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 07-23-2021 | 17/383,588 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11366780 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING CHARACTERISTICS AND METHODS FOR USE THEREWITH | 07-29-2021 | 17/444,016 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11709561 | Display scanning frequency patterns to convey data | 08-30-2021 | 17/461,377 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11822358 | DRIVE-SENSE CIRCUIT TO DETERMINE EFFECTS OF DIFFERENT ELECTRICAL CHARACTERISTICS ON LOAD | 09-23-2021 | 17/448,647 | Patrick Troy Gray<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |

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| 11896367 | WIRELESS IN-SHOE PHYSICAL ACTIVITY MONITORING | 09-27-2021 | 17/485,613 | Timothy W. Markison<br>Sayfe Kiaei<br>Gary McCoy |
| 11907484 | Function and Orientation Identification for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 09-30-2021 | 17/490,852 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11730965 | Drive-sense circuit (DSC) serviced electrocardiogram (ECG) leads | 09-30-2021 | 17/489,958 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11829566 | Enable/Disable Region of Interest Processing (ROIP) for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 10-27-2021 | 17/511,751 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11899888 | Device and Network Based Communications for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 10-28-2021 | 17/512,793 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11947761 | ENCODED DATA PATTERN TOUCHSCREEN SENSING COMPUTING DEVICE | 10-29-2021 | 17/513,936 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Patricia M. Healy |
| 11580045 | MULTIPLE COMMUNICATION CHANNEL ALLOCATION FOR LOW VOLTAGE DRIVE CIRCUITS | 11-05-2021 | 17/520,447 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11797120 | Screen-to-Screen package formats | 11-30-2021 | 17/537,630 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11681641 | SYNCHRONIZING A LOW VOLTAGE DRIVE CIRCUIT TO A BUS WHEN COUPLING THERETO | 01-05-2022 | 17/647,101 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11609652 | COMPUTING DEVICE FOR SCREEN-TO-SCREEN COMMUNICATION | 01-05-2022 | 17/647,135 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 12121773 | PERSONAL ATHLETE MONITORING SYSTEM | 01-31-2022 | 17/649,539 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |

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| 11954057 | DATA CONVEYANCE AND COMMUNICATION FOR THREE OR MORE LVDC ENABLED DEVICES | 02-03-2022 | 17/649,907 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11726603 | User device and touchscreen communication initialization and handshake | 02-28-2022 | 17/681,928 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11681323 | DATA FORMATTING OF A LOW VOLTAGE DRIVE CIRCUIT DATA COMMUNICATION SYSTEM | 03-03-2022 | 17/653,398 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11720208 | RGB LED TOUCH PANEL AND DRIVE SENSE CIRCUIT | 03-04-2022 | 17/653,602 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11740731 | User device and touchscreen codec negotiation | 03-30-2022 | 17/708,204 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 12008190 | Display generated data transmission from user device to touchscreen via user | 03-31-2022 | 17/709,549 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 12007421 | LOAD SENSING CIRCUIT EMPLOYING SINK AND SENSE CONFIGURATION | 04-12-2022 | 17/718,459 | Patrick Troy Gray<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11875005 | TOUCH SCREEN DISPLAY WITH TOUCHLESS INDICATIONS AND METHODS FOR USE THEREWITH | 04-12-2022 | 17/658,894 | Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11899867 | TOUCH SCREEN DISPLAY WITH TOUCHLESS GESTURES AND METHODS FOR USE THEREWITH | 04-12-2022 | 17/658,908 | Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 11809278 | PROGRAMMING A PROGRAMMABLE INPUT/OUTPUT (I/O) INTERFACE MODULE | 04-27-2022 | 17/660,937 | Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Timothy W. Markison |
| 11615047 | PACKET BASED COMMUNICATION USING LOW VOLTAGE DRIVE CIRCUITS | 05-06-2022 | 17/662,370 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Timothy W. Markison |
| 11907060 | Coding of Data Streams in a Vast Storage Network | 05-13-2022 | 17/663,299 | Gary W. Grube<br>Timothy W. Markison |

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| 11544146 | Utilizing Integrity Information in a Vast Storage System | 05-13-2022 | 17/743,717 | Gary W. Grube<br>Timothy W. Markison<br>Sebastien Vas<br>Zachary J. Mark<br>Jason K. Resch |
| 11580047 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING CHARACTERISTICS AND METHODS FOR USE THEREWITH | 05-18-2022 | 17/663,947 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 12019821 | Touchscreen to user device communication pathways | 05-31-2022 | 17/828,649 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11966548 | Device and Host Communications for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 05-31-2022 | 17/828,282 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11977123 | Sensing voltage using micro-watt sensor | 05-31-2022 | 17/828,407 | Patrick Troy Gray<br>Michael Shawn Gray<br>Timothy W. Markison<br>Shayne X. Short, Ph.D. |
| 12085618 | Battery Serving Network with Multiple Loads with Individual Voltage Sensing at Each Load | 05-31-2022 | 17/804,735 | Patrick Troy Gray<br>Michael Shawn Gray<br>Timothy W. Markison<br>Shayne X. Short, Ph.D. |
| 11989093 | Selection of Memory for Data Storage in a Storage Network | 06-13-2022 | 17/806,662 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 11487620 | Utilizing Locally Decodable Redundancy Data in a Vast Storage Network | 06-27-2022 | 17/850,145 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 11980760 | Pacemaker operative to sense cardiac response during delivery of impulse of pace signal | 06-30-2022 | 17/854,413 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11762745 | Encoding Data Based on Targeted Storage Unit Information | 07-13-2022 | 17/812,279 | Gary W. Grube<br>Timothy W. Markison |

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| 11740752 | Device with Signal Generator | 07-13-2022 | 17/864,249 | Kevin Joseph Derichs<br>Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Timothy W. Markison |
| 11644860 | CONFIGURING A PROGRAMMABLE DRIVE SENSE UNIT | 07-21-2022 | 17/814,165 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Michael Shawn Gray<br>Timothy W. Markison |
| 11635286 | Electrode mapping and signal orthogonality for capacitive imaging glove | 07-28-2022 | 17/875,555 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11625300 | Recovering Missing Data in a Storage Network via Locally Decodable Redundancy Data | 09-20-2022 | 17/933,563 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 11714719 | Tiered Storage of Data in a Storage Network | 09-30-2022 | 17/937,365 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 11980761 | Pacemaker operative to deliver impulses of pace signal and sense cardiac response via single conductor of pacemaker lead | 10-28-2022 | 17/975,729 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11815998 | Selecting Routing Paths for Sending Encoded Data Slices | 11-14-2022 | 18/054,992 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 11964158 | Pacemaker operational adaptation based on continuous monitoring of cardiac response including during delivery of impulse of pace signal and during response to impulse of pace signal | 11-16-2022 | 17/987,949 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11896085 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 11-28-2022 | 17/994,872 | Michael R. Adair<br>Timothy W. Markison |
| 11755413 | Utilizing Integrity Information to Determine Corruption in a Vast Storage System | 11-29-2022 | 18/059,833 | Gary W. Grube<br>Timothy W. Markison<br>Sebastien Vas<br>Zachary J. Mark<br>Jason K. Resch |

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| 11868298 | DATA CONVEYANCE AND COMMUNICATION SCHEME FOR TWO PARTY LOW VOLTAGE DRIVE CIRCUIT COMMUNICATION | 11-30-2022 | 18/060,278 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 11740067 | Capacitive imaging glove | 12-05-2022 | 18/074,934 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11693811 | LOW VOLTAGE DRIVE CIRCUIT WITH VARIABLE OSCILLATING CHARACTERISTICS AND METHODS FOR USE THEREWITH | 01-04-2023 | 18/149,932 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 12042009 | ATHLETIC SHOE OUTSOLE WITH GRIP AND GLIDE TREAD PATTERN | 01-23-2023 | 18/157,896 | Timothy W. Markison<br>Jeremiah Johnston<br>Patricia M. Healy |
| 12079083 | Rebuilding Missing Data in a Storage Network via Locally Decodable Redundancy Data | 02-27-2023 | 18/175,143 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 12073042 | Touchscreen data reception from user device via user | 03-01-2023 | 18/116,120 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 12112290 | COMPUTER WITH IMPROVED COMPUTER ARCHITECTURE | 03-06-2023 | 18/178,741 | Timothy W. Markison |
| 11933607 | Electrode mapping and signal orthogonality for capacitive imaging glove | 03-30-2023 | 18/128,738 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 11947381 | DATA FORMATTING MODULE OF A LOW VOLTAGE DRIVE CIRCUIT | 03-30-2023 | 18/192,701 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 12007930 | LOW VOLTAGE DRIVE CIRCUIT WITH DRIVE SENSE AND METHODS FOR USE THEREWITH | 05-17-2023 | 18/319,283 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 12093073 | TRANSMIT SIDE OF LOW VOLTAGE DRIVE CIRCUIT (LVDC) WITH NON-SYNC DATA CHANNELS | 06-14-2023 | 18/334,575 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |

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| 12056314 | DATA DRIVE INPUT CIRCUIT | 06-26-2023 | 18/214,240 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 12018940 | Digit movement detection based on capacitive imaging | 06-30-2023 | 18/217,036 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 12056315 | AMBIENT LIGHT SENSOR FOR A TOUCH PANEL DISPLAY | 07-03-2023 | 18/346,338 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 12032772 | Display scanning frequency patterns to convey data | 07-19-2023 | 18/223,598 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |

# Appendix II

A list of my pending patent applications.

| Application Number | Patent Application Title | Filed Date | Inventor(s) |
|---|---|---|---|
| 17/305,038 | GENERATION OF A DIGITAL PAD ON AN INTERACTIVE DISPLAY DEVICE | 06-29-2021 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 17/380,227 | EFFICIENT STORAGE OF DATA IN A DISPERSED STORAGE NETWORK | 07-20-2021 | Ilya Volvovski<br>S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch<br>Thomas F. Shirley, Jr.<br>Greg R. Dhuse<br>Manish Motwani<br>Andrew D. Baptist<br>Wesley B. Leggette |
| 17/490,245 | Noninvasive heart and/or intrathoracic impedance sensor | 09-30-2021 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 17/561,355 | BODY IMPACT PROTECTION SYSTEM | 12-23-2021 | Timothy W. Markison |
| 17/575,594 | INSOLE XYZ FORCE DETECTION SYSTEM | 01-13-2022 | Michael Shawn Gray<br>Kevin Joseph Derichs<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 17/649,506 | VARIABLE SAMPLING RATE WITHIN A FOOT FORCE DETECTION SYSTEM | 01-31-2022 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |
| 17/649,523 | PLURALITY OF LAYERS OF PRESSURE SENSORS WITHIN A FOOT FORCE DETECTION SYSTEM | 01-31-2022 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |
| 17/649,533 | SHOE TO SHOE COMMUNICATION WITHIN A FOOT FORCE DETECTION SYSTEM | 01-31-2022 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |
| 17/649,542 | POWER HARVESTING IN A FOOT FORCE DETECTION SYSTEM | 01-31-2022 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |
| 17/873,367 | Array operative to perform distributed/patterned sensing and/or stimulation across patient bodily section | 07-26-2022 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 17/970,276 | Input/Output (I/O) Operative Touch Sensor Device (TSD) | 10-20-2022 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |

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| 18/059,866 | VARIABLE CAPACITIVE FORCE SENSING STRUCTURE | 11-29-2022 | Michael Shawn Gray<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Kevin Joseph Derichs |
| 18/059,785 | PROGRAMMABLE IO MODULE | 11-29-2022 | Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Timothy W. Markison |
| 18/181,203 | COMMUNICATING DATA VIA A SCREEN-TO-SCREEN CONNECTION BASED ON DATA TYPE | 03-09-2023 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/184,009 | PROGRAMMABLE DRIVE SENSE UNIT | 03-15-2023 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Michael Shawn Gray<br>Timothy W. Markison |
| 18/307,710 | LOW VOLTAGE DRIVE CIRCUIT FOR SYNCHRONIZING TRANSMIT DATA FROM A HOST DEVICE TO CHANNELS ON A BUS | 04-26-2023 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 18/144,535 | Sensitivity Region of Interest Processing (ROIP) for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 05-08-2023 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 18/234,974 | DATA CONVEYANCE AND COMMUNICATION OF THREE OR MORE LVDC ENABLED DEVICES | 08-17-2023 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |
| 18/238,008 | Device with Signal Generator | 08-25-2023 | Kevin Joseph Derichs<br>Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Timothy W. Markison |
| 18/238,735 | Inter-digit movement detection based on capacitive imaging | 08-28-2023 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 18/242,298 | Spatial Filtering a Touch Signal of a Touch Screen Display | 09-05-2023 | Tyler Scott Harris<br>John Christopher Price<br>Grant Howard McGibney<br>Timothy W. Markison<br>Timothy D. Taylor |

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| 18/499,319 | Sending Encoded Data Slices Via Multiple Routing Paths | 11-01-2023 | Gary W. Grube<br>Timothy W. Markison<br>S. Christopher Gladwin<br>Greg R. Dhuse<br>Andrew D. Baptist<br>Ilya Volvovski<br>Jason K. Resch |
| 18/523,135 | DETECTION OF TOUCHLESS GESTURES BASED ON CAPACITANCE IMAGE DATA | 11-29-2023 | Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/522,863 | DISPLAY WITH TOUCHLESS INDICATIONS AND METHODS FOR USE THEREWITH | 11-29-2023 | Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 10-2021-7038655 | LIGHT EMITTING DIODE (LED) TOUCH DISPLAY CIRCUIT | 04-28-2020 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 10-2022-7004926 | Capacitive imaging glove | 07-30-2020 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 10-2022-7007468 | USER INPUT PASSIVE DEVICE FOR USE WITH AN INTERACTIVE DISPLAY DEVICE | 08-18-2020 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison<br>Michael Shawn Gray<br>Garry Joel Baum |
| 10-2022-7012371 | Display generated data transmission from user device to touchscreen via user | 10-05-2020 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 10-2022-7024690 | ORGANIC & INORGANIC TEST SYSTEM | 12-08-2020 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 17/247,758 | Assignment Of Tasks In A Distributed Storage Network | 12-22-2020 | Gary W. Grube<br>Timothy W. Markison |
| 10-2022-7030077 | SCREEN-TO-SCREEN COMMUNICATION VIA TOUCH SENSE ELEMENTS | 01-28-2021 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |

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| 17/234,121 | Storage Arbitrage in a Distributed Storage Network | 04-19-2021 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 18/774,679 | TOUCH SCREEN DISPLAY WITH PROXIMITY BASED VARIABLE TOUCH RESOLUTION | 07-16-2024 | Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/793,160 | DATA DRIVE INPUT CIRCUIT | 08-02-2024 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/809,965 | Recovering Missing Data in a Storage Network via Locally Decodable Redundancy Data | 08-20-2024 | Ilya Volvovski<br>Bruno H. Cabral<br>Manish Motwani<br>Thomas D. Cocagne<br>Timothy W. Markison<br>Gary W. Grube<br>Wesley B. Leggette<br>Jason K. Resch<br>Michael C. Storm<br>Greg R. Dhuse<br>Yogesh R. Vedpathak<br>Ravi V. Khadiwala |
| 18/810,903 | Touchscreen data reception from user device via user | 08-21-2024 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 18/830,993 | DATABASES OF AN IMPROVED COMPUTER FOR TECHNOLOGY | 09-11-2024 | Timothy W. Markison |
| 18/892,701 | Biological Test System Data Processing | 09-23-2024 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 18/892,734 | DATA PROCESSING MODULE OF A BIOLOGICAL TEST SYSTEM | 09-23-2024 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |

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| 18/909,158 | Storage Network with Time-Based Storage Access | 10-08-2024 | Gary W. Grube<br>Timothy W. Markison |
| 16/876,612 | IMPACT FORCE DAMPENING AND DEFUSING STRUCTURE | 05-18-2020 | Timothy W. Markison |
| 16/947,069 | DEFUSING CELL FOR IMPACT FORCE DEFUSION | 07-16-2020 | Timothy W. Markison |
| 202080077745.1 | RAM CELL PROCESSING CIRCUIT | 09-08-2020 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 202080084689.4 | Display generated data transmission from user device to touchscreen via user | 10-05-2020 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 17/064,194 | METHOD AND APPARATUS FOR AUTO-SCORING A GOLF-BASED GAME | 10-06-2020 | Timothy W. Markison<br>Patricia M. Healy |
| 202180012472.7 | SCREEN-TO-SCREEN COMMUNICATION VIA TOUCH SENSE ELEMENTS | 01-28-2021 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 17/445,676 | Efficient Data Encoding And Processing In A Storage Network | 08-23-2021 | Gary W. Grube<br>Timothy W. Markison |
| 17/446,574 | ORGANIC AND/OR INORGANIC MATERIAL TEST SYSTEM USING DIFFERENTIAL DRIVE-SENSE CIRCUITS | 08-31-2021 | Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Gerald Dale Morrison<br>Patrick Troy Gray<br>Phuong Huynh<br>Timothy W. Markison<br>Patricia M. Healy |
| 17/448,633 | VEHICLE SENSOR SYSTEM | 09-23-2021 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Patrick Troy Gray<br>Daniel Keith Van Ostrand<br>Kevin Joseph Derichs<br>Timothy W. Markison |
| 17/815,491 | LOW VOLTAGE DRIVE CIRCUIT ANALOG OUTBOUND DATA ENCRYPTION WITH FREQUENCY PRESERVATION | 07-27-2022 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Michael Shawn Gray<br>Timothy W. Markison |
| 17/821,650 | BIT SEQUENCE STORAGE METHOD AND SYSTEM | 08-23-2022 | Raymond Hicks<br>Timothy W. Markison |
| 17/823,729 | PERSONAL MONITORING SYSTEM USING E-FIELD COMMUNICATIONS VIA A BODY | 08-31-2022 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Kevin Joseph Derichs<br>Daniel Keith Van Ostrand<br>Timothy W. Markison |
| 18/047,945 | BODY LIMB PROTECTION SYSTEM | 10-19-2022 | Timothy W. Markison |
| 17/975,118 | Vehicle Computing System STS Communications with a Personal Computing Device and Applications Thereof | 10-27-2022 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Timothy W. Markison |

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| 17/975,152 | Personal Computing Device STS Communications with a Vehicle Computing System and Applications Thereof | 10-27-2022 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Timothy W. Markison |
| 18/178,792 | COMPUTER FOR ENHANCING AND/OR EVOLVING TECHNOLOGY | 03-06-2023 | Timothy W. Markison |
| 18/117,912 | COMPUTER AND NEW OPERATIONS REGARDING TECHNOLOGY USEFULNESS | 03-06-2023 | Timothy W. Markison |
| 18/117,934 | COMPUTER AND NEW OPERATIONS REGARDING TECHNOLOGY PROTECTION | 03-06-2023 | Timothy W. Markison |
| 18/117,952 | COMPUTER AND NEW OPERATIONS REGARDING TECHNOLOGY DEVELOPMENT | 03-06-2023 | Timothy W. Markison |
| 18/140,897 | SHOE PLACARD ASSEMBLY | 04-28-2023 | Walter Edwin Balfour<br>Timothy W. Markison<br>Jeremiah Johnston |
| 18/314,257 | Managing Memory Devices in a Storage Network | 05-09-2023 | Gary W. Grube<br>Jason K. Resch<br>Timothy W. Markison<br>Ilya Volvovski<br>Manish Motwani |
| 18/326,253 | Managed Data Distribution Using a Wireless Network | 05-31-2023 | S. Christopher Gladwin<br>Gary W. Grube<br>Timothy W. Markison |
| 18/217,686 | TOUCH SENSITIVE PANEL SUPPORTING CAPACITIVELY COUPLED IDENTIFICATION CODE | 07-03-2023 | Richard Stuart Seger, Jr.<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Patrick Troy Gray<br>Timothy W. Markison |
| 18/218,780 | Securely Storing Secure Packages in a Storage Network | 07-06-2023 | Gary W. Grube<br>Timothy W. Markison |
| 18/363,179 | Generating Multiple Sets of Integrity Information in a Vast Storage System | 08-01-2023 | Gary W. Grube<br>Timothy W. Markison<br>Sebastien Vas<br>Zachary J. Mark<br>Jason K. Resch |
| 18/232,152 | Read Requests in a Directory-Less Storage Network | 08-09-2023 | Gary W. Grube<br>Timothy W. Markison |
| 18/236,153 | Drive-sense circuit (DSC) serviced electrocardiogram (ECG) leads | 08-21-2023 | John Christopher Price<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 18/499,289 | Ingesting and Storing Data in a Massive Data Ingestion System | 11-01-2023 | S. Christopher Gladwin<br>Greg R. Dhuse<br>Timothy W. Markison<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |

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| 18/508,311 | DETERMINING THE EFFECTS OF DIFFERENT ELECTRICAL CHARACTERISTICS OF A DRIVE-SENSE CIRCUIT ON A LOAD | 11-14-2023 | Patrick Troy Gray<br>Michael Shawn Gray<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/519,637 | Enable/Disable Region of Interest Processing (ROIP) for Input/Output (I/O) Operative Touch Sensor Device (TSD) | 11-27-2023 | Patrick Troy Gray<br>Gerald Dale Morrison<br>Daniel Keith Van Ostrand<br>Richard Stuart Seger, Jr.<br>Kevin Joseph Derichs<br>Shayne X. Short, Ph.D.<br>Timothy W. Markison |
| 18/520,681 | Generating an Audit Record Data File for a Storage Network Transaction | 11-28-2023 | Gary W. Grube<br>Timothy W. Markison<br>Jason K. Resch |
| 18/526,519 | SINGLE CYCLE TWO-BIT READ PROCESSING IN RAM CELL | 12-01-2023 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison |
| 18/531,827 | Sensing Voltage Using Micro-watt Sensor Without High Impedance Shunt | 12-07-2023 | Patrick Troy Gray<br>Michael Shawn Gray<br>Timothy W. Markison<br>Shayne X. Short, Ph.D. |
| 18/544,511 | ATHLETIC POSITIONING APPARATUS AND APPLICATIONS THEREOF | 12-19-2023 | Michael R. Adair<br>Timothy W. Markison |
| 18/401,819 | Selecting Storage Targets in a Distributed Storage System | 01-02-2024 | Gary W. Grube<br>Timothy W. Markison |
| 18/407,626 | SHOE WITH FORCE DEFUSING AND/OR FORCE DIRECTING CONSTRUCTS | 01-09-2024 | Timothy W. Markison |
| 18/443,503 | System and Method for Time-aligning Data Transmission to a Mobile Receiver | 02-16-2024 | Gary W. Grube<br>Timothy W. Markison |
| 18/617,243 | ENCODED DATA PATTERN FOR TOUCHSCREEN SENSING | 03-26-2024 | Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Richard Stuart Seger, Jr.<br>Timothy W. Markison<br>Patricia M. Healy |
| 18/665,616 | Preference Based Selection of Storage Network Memory for Data Storage | 05-16-2024 | S. Christopher Gladwin<br>Timothy W. Markison<br>Greg R. Dhuse<br>Thomas F. Shirley, Jr.<br>Wesley B. Leggette<br>Jason K. Resch<br>Gary W. Grube |
| 18/732,747 | LOW VOLTAGE DRIVE CIRCUIT FOR TRANSCEIVING ANALOG DATA VIA A BUS AND METHODS FOR USE THEREWITH | 06-04-2024 | Richard Stuart Seger, Jr.<br>Daniel Keith Van Ostrand<br>Gerald Dale Morrison<br>Timothy W. Markison |