UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner,

v.

ONE-E-WAY, INC.,

Patent Owner.

Case IPR2021-00284
U.S. Patent 10,468,047 B2

DECLARATION OF JOSEPH C. MCALEXANDER IN SUPPORT OF PATENT OWNER'S PRELIMINARY RESPONSE TO PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 10,468,047

I, Joseph C. McAlexander III, P.E., declare as follows:

1. I have personal knowledge of the facts set forth herein, and, if called upon to do so, I could and would testify competently to them.

2. I have been asked to offer my opinion regarding the Petition for *Inter Partes* Review of U.S. Patent No. 8,131,391 in IPR2021-00283, the Petitions for *Inter Partes* Review of U.S. Patent No. 10,468,047 in IPR2021-00284 and -00285, and the Petitions for *Inter Partes* Review of U.S. Patent No. 10,129,627 in IPR2021-00286 and -00287, and in particular to compare those patents against prior art references raised in the respective IPR Petitions, and to consider opinions of Petitioner's declarant, Regis J. Bates Jr., offered in support of the IPR Petitions.

3. I have been retained by Patent Owner One-E-Way, Inc. to provide my expert opinion. I am being compensated at my customary hourly rate for my time spent on this opinion. I have no personal interest in the outcome of this or any related proceeding.

Expert Qualifications

4. I am a Registered Professional Engineer (#79454). I am President of McAlexander Sound, Inc., a Professional Engineering Company (F-8163), and the Managing Director of McAlexander Sound Pte Ltd., both providing professional consultation in engineering and intellectual property. I am also the President and CEO of MDFHoldings, Inc., an IP holding company engaged in the field of tracking,

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integrating multiple forms of wireless transmission/reception and protocols including, GPS, Assisted GPS, paging, LANs, RFID, local RF such as Bluetooth, and using base station technology as appropriate. I hold a Bachelor of Science degree in Electrical Engineering from North Carolina State University and have over 48 years of experience in microcircuit and semiconductor technologies. I am an inventor of 31 issued United States patents and a number of foreign patents.

5. My skills and experience are in areas of software development, management, circuit design and analysis, device fabrication and assembly, testing, marketing, control system design and analysis, manufacturing operations, and respective areas of quality, reliability, and defect/failure analysis. Specifically, I have:

- designed and managed development, testing, simulation, and evaluation of devices including Dynamic Random Access Memories (DRAMs), Static Random Access Memories (SRAMs), Charge Coupled Devices (CCDs), Shift Registers (SRs), and functional circuits including I/O buffers for address and data, decoders, clocks, sense amplifiers, fault tolerant, parallel-to-serial data paths for video applications, level shifters, converters, pumps, and logic, as well as wireless communication systems and MEMs applications;

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- managed operations including engineering, training, and quality assurance for device fabrication, assembly, test, analysis, and reliability assessment, as well as manufacturing control, each of which involved both volatile and non-volatile memory;
- designed and performed testing, analysis, and control involving use of mechanical calibration and measuring equipment, including optical, scanning e-beam, IR, capacitive, and laser using phase contrast and Fast Fourier Transform (FFT) for High Aspect Ratio Inspection (HARI) applications;
- managed the design and installation of audio sound and video systems for private and commercial enterprises;
- taught courses in solid-state device physics, integrated circuit design, integrated circuit fabrication, and statistical control;
- provided expert services, investigating both process and design technologies of various devices (microprocessor and controller, volatile and non-volatile memory, programmable logic, card, tag, module, mixed signal, custom, and other), systems (PC and peripheral, computer, control, laser measurement, switch, architecture, software, and other), and consumer products

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(medical, TV, telephone, VCR, facsimile, copier, lighting, game, and other);

- experienced in programming, erasing, and wearout of electrically programmable and erasable non-volatile memories.

6. Upon completion of my electrical engineering degree in 1969, I was commissioned as an officer in the U.S. Army. For 2 years, I managed the air defense operation for the New England area, which included radar and secure communication channels to aircraft, missile batteries, and U.S. Command. I then commanded a signal battalion in South Korea for 1 year, designing and orchestrating at the division level the first of its kind communication power grid mapping study using AM and FM transmission/reception, among others, and utilizing crypto security transmission/reception methods.

7. As part of licensing of my IP circa 2002 – 2004, I negotiated and executed a number of licensing and design programs to provide GPS tracking and transmission of information wirelessly, using paging and CDMA. The technologies included partnerships for skier tracking with Snowtrax, offender tracking with Stellar Technology Enterprises, pet tracking with The Procter & Gamble Company, journalist tracking with CNN, asset tracking with TrackDaddy, and family tracking with Disney, to name a few. I also advised a startup between 2013 and 2018 in peer-to-peer encrypted cellular communication.

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8. Because of my background, training, and experience, I am qualified as an expert to opine as set forth herein. A more detailed account of my work experience and other qualifications is listed in my Curriculum Vitae attached as Appendix A.

Materials Considered

9. In the course of developing this declaration, I examined the following materials:

- U.S. Patent No. 8,131,391 to Woolfork;
- U.S. Patent No. 10,129,627 to Woolfork;
- U.S. Patent No. 10,468,047 to Woolfork;
- The Petitions for *Inter Partes* Review in IPR2021-00283, -00284, -00285, -00286, -00287, and exhibits to each respective Petition, including Exhs. 1010 and 1120, the certified English translation of KR Application No. 20-1998-0018161 ("Ham"); and "Digital Communications: Fundamentals and Applications" (1988), by Bernard Sklar ("Sklar"), including Exhs. 1003 and 1103; "CDMA Mobile Radio Design" (2000) by John B. Groe, Exhs. 1009 and 1109;
- U.S. Patent No. 6,618,429; and
- U.S. Patent No. 6,091,760.

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Level of Ordinary Skill in the Art

10. In this analysis, I have been asked to assume the level of ordinary skill in the art set forth in the Petitions. Thus, I have assumed that a person having ordinary skill in the art as of December 2001 would have possessed at least a bachelor's degree in electrical engineering, and two years of experience in the design or implementation of wireless communications systems (or equivalent degree or experience). I am familiar with the level of knowledge meeting this standard. Additional details regarding that familiarity are contained in my attached Curriculum Vitae.

Claim Term Constructions

11. For purposes of this declaration, I have been asked to assume the claim constructions set forth in the Petitions. Thus, I have assumed the following claim constructions in this analysis:

Claim Term	Petitioner's Requested Construction
"reduced intersymbol interference coding"	"coding that reduces intersymbol (inter-symbol) interference"
"configured for independent code division multiple access (CDMA) communication operation"	"configured for code division multiple access (CDMA) communication operation performed independent of any central control"
"unique user code"	"fixed code (bit sequence) specifically associated with one user of a device(s)"

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Claim Term	Petitioner's Requested Construction
"direct conversion module"	"module for converting radio frequency to baseband or very near baseband in a single frequency"

Error Correction Encoding

12. Mr. Bates opines that "Ham itself provides express suggestions to use coding to reduce ISI by teaching the use of 'error correction encoding on the applied signal and performs immunity processing so as not to be affected by noise generated in the communication channel.' (Ham, p.2)." *E.g.,* IPR2021-00283 Ex. 1002 ¶ 162. I have reviewed the statement in Ham referenced by Mr. Bates. A person of ordinary skill in the art would not understand "error correction encoding" referenced in Ham to refer to encoding to address intersymbol interference, which relates to interference caused by the signal itself. Interpreted so broadly as to include intersymbol interference, error correction encoding would include many techniques in both waveform coding and structured sequencing to address errors arising from any source of channel impairment. I note that Petitioner's Sklar reference describes the use of waveform coding and structured sequencing to address channel impairments broadly, including switching noise, burst noise, jamming, fading, multipath as well as interference of numerous types. *E.g.,* IPR2021-00283 Ex. 1003 at 208.

13. The Sklar reference further describes that, under such a broad interpretation, error correction encoding would include: (1) waveform coding, which

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involves transforming a waveform into a better waveform that makes the process of detection less subject to errors; and (2) structured sequences, which involve introducing redundancy into a signal, where the redundant bits can then be used for the detection and correction of errors. *Id*. A person of ordinary skill would also understand that waveform coding includes numerous techniques, including *M*-ary signaling, and the use of antipodal, orthogonal, biorthogonal and transorthogonal signals. *Id*. at 208-19. A person of ordinary skill would further understand that structured sequence coding covers broad subcategories of coding techniques, such as linear block coding and convolutional coding, each of which includes multiple species of coding techniques. Linear block coding includes, for example, the use of cyclic codes, hamming codes, Golay codes, BCH codes, and Reed-Solomon codes. *Id.* at 231-269. Further, convolutional coding includes many coding and decoding strategies, as well as the use of interleaving to apply convolutional coding techniques to channels that exhibit certain types of noise or fading. Ex. 2004 (Sklar chapter 6).

Orthogonality and Independent CDMA

14. The Ham reference contains the following disclosure:

> In general, a headphone is a design used to provide audio only to a user who uses the headphone by receiving an audio signal wirelessly or wired; in addition, the code division multiple access method (hereinafter referred to as the code division method) is a method of sharing a frequency by extending a signal into a frequency band that is much wider than the bandwidth of the required amount of information. In other words, ***it shares all frequency and time and maintains orthogonality with a unique code assigned to it***. In this case, in the

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> code division method, a signal to be transmitted is extended by receiving a unique Pseudo Random (PN) code.

E.g., IPR2021-00283 Ex. 1010 at 2 (emphasis added). A person of ordinary skill in the art would understand that sharing time (synchronous) and maintaining orthogonality refer to specific sub-species of CDMA (such as the synchronous, orthogonal CDMA used in the mid- to late 1990s in IS95), and do not refer to attributes common to all CDMA. *See, e.g.*, IPR2021-00283 Ex. 1002 ¶ 38, Ex. 1009 at 41-44. For example, CDMA can be asynchronous (transmissions not time-synchronized) or non-orthogonal (code cross-correlations greater than zero). Thus, a person of ordinary skill in the art would understand that Ham is disclosing its "code division method" as being synchronous and maintaining orthogonality. A person of ordinary skill in the art would also understand that Ham incorporates this specific "code division method" in its transmission and reception circuits disclosed thereafter. *E.g.,* IPR2021-00283 Ex. 1010 at 2 ("hereinafter referred to as the code division method").

15. One of ordinary skill in the art would understand that Ham's unequivocal statement that its code division method "maintains orthogonality" is consistent with Ham also reporting that "noise and interference are prevented" by its system. *Id*. at 3.

16. One of ordinary skill in the art would also understand that maintaining orthogonality is an indication of centralized control. In particular, in a wireless

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communications system in which multiple user devices communicate wirelessly in the same frequency and time, orthogonality can only be maintained by providing each user device with a spreading code known to be orthogonal to each spreading code being used by another user device. In Ham's system, this would require centralized control ensuring that all Ham's assigned PN codes have a cross-correlation value of zero.

17. A person of ordinary skill would understand that orthogonality can be implemented in a CDMA system with PN codes as disclosed in Ham. *See, e.g.*, Ex. 2006 (U.S. Patent No. 6,618,429, "System And Method For Generating Signal Waveforms In A CDMA Cellular Telephone") at 4:40-44 ("With orthogonal PN codes, the cross correlation is zero over a predetermined time interval, resulting in no interference between the orthogonal codes, provided only that the code time frames are time aligned with each other."); Ex. 2007 (U.S. Patent No. 6,091,760) at 1:47-54, 2:43-48.

18. A person of ordinary skill in the art would also understand that CDMA methods in which wireless communications are performed at the same frequency, and are synchronized in time, have the advantage of being candidate methods for the use of orthogonal spreading codes. Thus, a person of ordinary skill in the art would understand that the same-frequency, time-synchronous CDMA method disclosed by

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Ham is the type of system in which multi-user interference can be addressed through the use of spreading codes known to be orthogonal to each other.

PCS

19. Ham discloses the following as one of its design objectives: "Another object of the present design is to apply a spread spectrum modulation method, which is a CDMA method, wherein in PCS, which is a personal mobile phone, the transmission rate is 14.4 kbps, and the frequency band is set from 902 MHz to 928 MHz." *E.g.,* IPR2021-00283 Ex. 1010 at 2. One of ordinary skill in the art would recognize that PCS is a wireless cellular-based communications network that operates using cellular base stations.

Downconversion Architecture In Ham

20. In its disclosure of a transmission circuit, Ham discloses a signal "processed to an intermediate frequency through the base band unit 5." *Id*. at 3. A person of ordinary skill in the art would understand Ham's description of a signal "processed to an intermediate frequency" as an indication of a non-homodyne downconversion architecture.

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and

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the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Executed on March 16, 2021.

Joseph C. McAlexander III, P.E.

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APPENDIX A

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PROFESSIONAL SUMMARY

Currently a Registered Professional Engineer (#79454) and recognized as an inventor on 31 US and a number of foreign patents, I am President of McAlexander Sound, Inc., and the Managing Director of McAlexander Sound Pte Ltd. I have focused my expertise to support a number of clients in product, process, and operations analysis and investigation. Forty-eight years of experience in microcircuit and semiconductor technologies has developed my skills in areas of circuit design and analysis, device fabrication and assembly, testing, marketing, control system design and analysis, manufacturing operations and respective areas of quality, reliability, and defect / failure analysis. I am also the President and CEO of MDFHoldings, Inc., an IP holding company currently engaged in the field of GPS Tracking, and was formerly, among others, a Manager with QM Partners, LP, supporting clients in IP management and licensing. I have:

- designed and managed development, testing, and evaluation of devices including Dynamic Random Access Memories (DRAMs), Static Random Access Memories (SRAMs), Charge Coupled Devices (CCDs), Shift Registers (SRs), and functional circuits including I/O buffers for address and data, decoders, clocks, sense amplifiers, fault tolerant, parallel-to-serial data paths for video applications, level shifters, converters, pumps, and logic, as well as wireless communication systems and MEMs applications;

- managed operations including engineering, training, and quality assurance for device fabrication, assembly, test, analysis, and reliability assessment, as well as manufacturing control, each of which involved both volatile and non-volatile memory; testing, analysis, and control involving use of mechanical calibration and measuring equipment, including optical, scanning e-beam, IR, capacitive, and laser using phase contrast and Fast Fourier Transform (FFT) for High Aspect Ratio Inspection (HARI) applications; audio and video system design and installation;

- taught courses in solid state device physics, integrated circuit design, integrated circuit fabrication, and statistical control;

- provided expert services, investigating both process and design technologies of various devices (microprocessor and controller, memory, programmable logic, card, tag, module, mixed signal, custom, and other), systems (PC and peripheral, computer, control, laser measurement, switch, architecture, software, and other), and consumer products (medical, TV, telephone, VCR, facsimile, copier, lighting, game, and other);

- provided nuclear radiation hardness testing services for military and space clients; and

- managed the design and installation of audio sound and video systems for private and commercial enterprises.

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PROFESSIONAL SUMMARY

From 1986-1990, I was Executive Vice President of EPI Technologies, Inc., prior to joining the staff at Cochran Consulting, Inc. where I served as senior managing consultant from 1991-2002. From 1972 to 1986, I was employed by Texas Instruments Incorporated.

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EXPERIENCE PROFILE

1988-present **McAlexander Sound, Inc. (McASI)** - Richardson, TX
President

- o System, Product, and Process investigation, expert witness services for protection of intellectual property;
- o Patent portfolio development and valuation;
- o Product liability and insurance claim investigation, expert witness services for matters involving such claims;
- o Quality Systems consulting and engineering;
- o Radiation Hardness Testing Technical Representative;
- o Technical Advisor in High Aspect Ratio and Surface Contour Measurement using Direct-to-Digital Holography.

2005-present **McAlexander Sound Pte Ltd** - Singapore
Managing Director

- o System, Product, and Process investigation, expert witness services for protection of intellectual property;
- o Patent portfolio development and valuation;
- o Contract consultation;
- o Not assigned any patents and is not engaged in any IP related licensing or litigation activities.

2002-present **MDFHoldings, Inc.** – Las Vegas, NV
CEO

- o IP holding and licensing company;
- o Assigned U.S. Patent Nos. 7,340,260 and 7,657,265 and EP 1 557 058 B1, each related to an object locating system;
- o Has not been and is not engaged in any IP related litigation or licensing activities.

2006-2020 **QM Partners, L.P.** – Texas
Manager

- o Management of development, licensing, prosecution and exploitation of assigned intellectual property;
- o Not assigned any patents and is not engaged in any IP related licensing or litigation activities.

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EXPERIENCE PROFILE (continued)

2006-2020 **Guardian Technologies, LLC** – Texas
Manager

o IP holding and licensing company;
o Litigated U.S. Patent No. 5,657,076 related to security surveillance 2009-2011 (patent expired 2015);
o Assigned U.S. Patent No. 8,334,775 related to RFID tracking (reassigned 2020 to personal);
o Not engaged in any IP related licensing or litigation activities.

2006-2020 **Appropriate Holdings, LLC** – Delaware
Manager

o IP holding company;
o Not assigned any patents, has not been and is not engaged in any IP related licensing or litigation activities.

1996-2010 **RMC Management, LLP** - Plano, TX
Partner

o Asset management.

1991-2002 **Cochran Consulting, Inc. (CCI)** - Richardson, TX
Managing Consultant

o System, Product, and Process investigation, expert witness services for protection of intellectual property;
o Design, process, and product reliability;
o Defect and failure analysis.

1986-Nov'90 **EPI Technologies, Inc.** - Richardson, TX
Executive Vice President and Company Officer

o Managed Advanced Technology Div., QA, and Engineering, including software program development;
o Developed strategic, space/energy market growth plans;
o Negotiated the acquisition of and managed a radiation company;
o Designed and managed physical analysis, radiation effects, and environmental stress laboratories, including optical and e-beam measurement;
o Achieved > 30% annual revenue growth and profitability for each laboratory the first 12 months;

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EXPERIENCE PROFILE (continued)

o Product and Process investigation services for protection of intellectual property.

1972 – 1986 **Texas Instruments, Inc.** - Dallas/Houston, TX; Singapore

'84 - '86 **Quality/Reliability Assurance Manager, TI Dallas** Advanced DRAM semiconductor wafer fabrication facility

o Developed/implemented on-line, computerized SPC software tools for dimensioning analysis and control and pattern recognition;
o Coordinated people development, design-of-experiments;
o Managed chemical and physical analysis laboratories;
o Implemented control systems to assure product, process, material, equipment, and facility compliance, including Cost of Quality analysis.

'82 - '84 **Quality/Reliability Assurance and Engineering Manager**, **TI Singapore** assembly/test facility

o Developed, implemented, and operated an effective Quality/Reliability Assurance program for assembly processing including optical pattern recognition for equipment registration;
o Supervised 225 people for 7 day/week operation, including QRA, Computer Systems software development, and Training;
o Trained engineers in Solid State Physics, device fabrication, and statistical process control.

'81 - '82 **Engineering Operations Manager**, **TI Houston**

o Managed DRAM memory product cost center;
o Responsible for division test software generation, product assembly and test quality / yield, cost reduction and quality improvement;
o Provided technical customer interface for marketing;
o Coordinated TI Singapore engineering test/assembly.

'79 - '81 **Product Engineering Manager**, **TI Houston**

o Responsible for yield improvement, technical customer interface, quality improvement, design evaluation, and device characterization for DRAM and CCD products;
o Developed device specifications and test software.

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EXPERIENCE PROFILE (continued)

'72 - '79 **Design Section Manager / Engineer**, **TI Houston**

o Responsible for design and development, process compatibility, production introduction of Dynamic Ram products;
o Activities included electrical and physical layout, SPICE model simulation, test program generation, and product implementation for MOS Dynamic Ram products.

1969 - 1972 **U. S. Army** - Coventry, Rhode Island; Seoul, Korea
Captain, Air Defense Artillery

o Served one year as Communications Officer in Korea;
o Served two years as Tactical Officer, New England Defense.

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ORGANIZATIONS, PUBLICATIONS, EDUCATION

PROFESSIONAL ORGANIZATIONS AND AWARDS

1 - Institute of Electrical and Electronics Engineers, Inc. (IEEE), Senior Member. Societies: Computer, Electron Devices, Solid State Circuits
2 - Licensing Executives Society (LES)
3 - National Society of Professional Engineers
4 - Texas Board of Professional Engineers, Registered License #79454
5 - Society of Flight Test Engineers
6 - American Society of Civil Engineers
7 - 2000/2001 Nationwide Register's Who's Who in Executives and Businesses
8 - 1996/1997 Strathmore's Who's Who Registry of Business Leaders

PUBLICATIONS

1- NUS Proceedings of Engineering Convention '83, Aug '83, pgs. 139-142, The Memory Challenge.

2- Archives of Biochemistry and Biophysics, Dec'81, Vol. 212, No. 2, Equilibrium Constants under Physiological Conditions for the Reactions of D-3-Phosphoglycerate Dehydrogenase and L-Phosphoserine Aminotransferase.

3- International Electron Devices Meeting, Dec '79, pgs. 355-357, Sub 100ns 16K x 1 MOS Dynamic RAM Using a Grounded Substrate.

EDUCATION PROFILE

1980 - 1985	Taught Solid State Device Physics, Semiconductor Processing, Circuit Design Techniques, and Statistical Quality Control Methods Effectiveness Training and Japanese Manufacturing Techniques, Participative Problem Solving courses
1975 - 1976	1.5 years Graduate Study in Neural Science, the University of Texas Graduate School of Biomedical Science
1965 - 1969	BSEE, North Carolina State University

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PATENTS (US-31, Foreign-8)

4,239,993	(1980) High Performance Dynamic Sense Amplifier with Active Loads
4,280,070	(1981) Balanced Input Buffer Circuit for Semiconductor Memory
4,288,706	(1981) Noise Immunity in Input Buffer Circuit for Semiconductor Memory
4,370,575	(1983) High Performance Dynamic Sense Amplifier with Active Loads
4,418,293	(1983) High Performance Dynamic Sense Amplifier with Multiple Column Outputs
4,533,843	(1985) High Performance Dynamic Sense Amplifier with Voltage Boost for Row Address Lines
4,543,500	(1985) High Performance Dynamic Sense Amplifier Voltage Boost for Row Address Lines
4,543,501	(1985) High Performance Dynamic Sense Amplifier with Dual Channel Grounding Transistor
4,748,349	(1988) High Performance Dynamic Sense Amplifier with Voltage Boost for Row Address Lines
6,172,640 B1	(2001) Pet Locator
6,236,358 B1	(2001) Mobile Object Locator
6,421,001 B1	(2002) Object Locator
6,441,778 B1	(2002) Pet Locator
6,480,147 B2	(2002) Portable Position Determining Device
6,518,919 B1	(2003) Mobile Object Locator
6,771,213 B2	(2004) Object Locator
6,859,171 B2	(2005) Mobile Object Locator

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PATENTS (continued)

7,113,126 B2	(2006) Portable Positioning Determining Device
7,179,674 B2	(2007) Bi-Directional Released-Beam Sensor
7,209,075 B2	(2007) Mobile Object Locator
7,324,044 B2	(2008) Object Locator
7,336,227 B2	(2008) Portable Position Determining Device
7,340,260 B2	(2008) System and Method for Tracking the Location of Multiple Mobile Radio Transceiver Units (assigned to MDFHoldings, Inc.)
7,353,706 B2	(2008) Weighted Released-Beam Sensor
7,397,097 B2	(2008) Integrated Released Beam Layer Structure Fabricated in Trenches and Manufacturing Method Thereof
7,564,405 B2	(2009) Object Locator
7,657,265 B2	(2010) System and Method for Tracking the Location of Multiple Mobile Radio Transceiver Units (assigned to MDFHoldings, Inc.)
7,760,137 B2	(2010) Portable Positioning Determining Device
7,764,228 B2	(2010) Portable Positioning Determining Device
7,989,906 B2	(2011) Bi-Directional released-Beam Sensor
8,334,775 B2	(2012) RFID-Based Asset Security and Tracking System, Apparatus and Method (assigned to personal)
JP 55-053640 B4	(1980) Defect Resistant Semiconductor Memory Cell
JP 59-044720 B4	(1984) Semiconductor High Speed Read/Write Memory Unit
DE2935121 C2	(1980) Clock Voltage Generator for Semiconductor Memory with Reduced Power Dissipation
DE3043651 A1	(1981) Clock Voltage Generator for Semiconductor Memory with Reduced Power Dissipation

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PATENTS (continued)

GB2032211 B2	(1980) High Performance Dynamic MOS Read/Write Memory
EP 1 557 058 B1	(2011) System and method for tracking the location of multiple mobile radio transceiver units (assigned to MDFHoldings, Inc.) [States: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR]
EP 1 676 809 B1	(2010) Weighted released-beam sensor [States: DE FR GB IT]
EP 1 676 810 B1	(2010) Bi-directional released-beam sensor [States: DE FR GB IT]

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CASES

Cases over at least the past 7 years, either active or closed, in which I have signed a Protective Order, have testified as an expert either at a trial, hearing, or deposition, or have submitted statements / opinions by declaration, affidavit, or report, are:

CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
AMS* v. Crane & Seaga (*firm: Davidson Berquist	3:03-CV88-JPB, 3:08-CV-97-JPB and 3:04-CV-80,75,48	ND WVA	2008-2012	P, t, TH
(Patents related to vending machines)				
ITT* v. Celco et al. (*firm: Davidson Berquist)	09-190-JJF	DE	2009 - 2012	P
(Patent related to GPS position determination)				
TAOS* v. Intersil (*firm: Munck Carter)	4:08-CV-451	ED TX, Sherman	2009 - 2015	P, TS, t, TH
(Patent related to optical detector)				
PACT v. Xilinx* (*firm: Kirkland & Ellis)	2:07-CV-563	ED TX, Marshall	2010 - 2012	P, t
(Patents related to Programmable Data Processing)				
Opti Inc. v. SIS & Via* (*firm: Buether Joe & Carpenter)	2:10-CV-279	ED TX, Marshall	2010 - 2013	P, t, TH
(Patents related to Cache Memory Snooping)				
Avocent* v. Raritan (*firm: Davidson Berquist)	10-CV-6100	SD NY	2010 - 2012	P, t, TH
(Patents related to KVM Switching)				
Richtek Technology v. uPI* (*firm: Haynes & Boone)	C09-05679 WHA	ND CA, SF	2010 – 2013	P
(Patents related to dc-dc Power Controllers				

[1] * = Client

[2] P=Patent, C=Contract, ©=Copyright, TS=Trade Secret, AT=Antitrust; CA=Class Action; t=testified, TH=Trial/Hearing

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Princeton* v. Canon (*firm: Duane Morris)	2:10-CV-00029-TJW	ED TX, Marshall	2010 – 2012	P
(Patent related to video compression)				
The Chamberlain Group* v. Decko et al. (*firm: Fitch Even)	1:10-CV-07843	ND IL, ED	2011 – 2012	P
(Patents related to garage door opener control systems)				
CEATS* v. Continental Airlines et al. (*firm: McDermott Will & Emery)	6:10-CV-120 LED	ED TX, Tyler	2011 - 2012	P, t, TH
(Patent related to interactive seating selection)				
Lutron v. Crestron* (*firm: Quinn Emanuel)	2:09-cv-707	CD UT	2011 - 2012	P
(Patents related to electronic control systems)				
Alcohol Monitoring* v. BI (*firm: Latrop & Gage) DME-CBS	11-cv-00301-DME-CBS	CO	2011 - 2012	P
(Patent related to alcohol monitoring)				
T-Netix, Inc.* v. Pinnacle Public Services, LLC (*firm: Gruber Hurst)	2:09-CV-00333-CE	ED TX, Marshall	2011 - 2012	P
(Patents related to penal institution telephone communication control)				
TattleTale* v. Calfee (*firm: Cooper & Elliott)	2:10-CV-226	SD OH, Columbus	2011 - 2012	P
(Patents related to portable alarm systems)				
Cypress* v. GSI et al (*firm: Morrision & Foerster)	337-TA-792	ITC (Bullock)	2011 - 2012	P, t, TH
(Patents related to memory operation, architecture, and layout)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Infineon* v. Atmel (*firm:Kirkland & Ellis)	1:11-cv-00307	DE	2011 - 2012	P
(Patents related to IC circuits and process)				
Cherdak v. Rack Room* (*firm: Lathrop & Gage)	1:11-CV-169 LO/ JFA	ED of VA	2011 - 2012	P
(Patents related to IC timing device for athletic shoes)				
DRAM Mem Tech v. Etron* et al (*firm: Dickstein Shapiro)	8:11-CV-000332-DOC-SS	CD of CA	2011-2012	P
(Patents related to IC memory technology)				
Richtek Technology v. uPI Semi.* et al (*firm: Haynes and Boone)	337-TA-698	ITC (Luckern)	2011 - 2012	P, t, TH
(Patents related to DC-DC Controllers)				
Solid State Storage v. STEC* (*firm: Akin Gump)	2:11-CV-391	ED TX, Marshall	2011 - 2012	P
(Patents related to Memory and Memory Control)				
ParkerVision* v.Qualcomm (*firm:Allen,Dyer,McKool)	3:11-CV-719-J-37	MD FL, J.ville	2011 - 2012	P
(Patents related to Signal Down-Converting and Translation)				
Oracle v. Micron* (*firm: Gibson Dunn)	CV10-4340	ND CA, San Jose	2011 - 2012	C
(Conspiracy, Agreement Compliance)				
Grail* v. Mitsubishi et al. (*firm: Niro Haller & Niro)	1-07-CV-098590	SC CA, Santa Clara	2011 - 2012	TS, t, TH
(Improper disclosure and use of Trade Secrets)				
Grail* v. Renesas (*firm: Niro Haller &Niro)	C 11-03847	ND CA, San Fran	2011 - 2015	P
(Patent related to inductive coupled memory)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Round Rock v. ASUS* (*firm: Perkins Coie)	11-978-MSG	DE	2012 - 2013	P
(Patents related to die termination control and memory communication)				
Intellectual Ventures v. Hynix* (*firm: Quinn Emanuel)	1:10-cv-01066-UNA	DE	2012	P
(Patents related to die memory access and control)				
Omega* v. Skypatrol et al.(*firm: Allen Dyer)	11-24201-Civ-Moore/Torres	SD FL, Miami	2012 - 2013	P
(Patents related to vehicular tracking)				
Creative* v. Nintendo (*firm: Barnes & Thornburg)	2:10-cv-2735-AHM-VBK	CD CA, Western	2012	P
(Patents related to ROM memory array design)				
Beacon v. Honda* et al. (*firm: Fish & Richardson)	337-TA-814	ITC (Pender)	2012	P
(Patents related to navigation)				
AVM* v. Intel (*firm: Goldstein; Boies)	10-610-RK	DE	2012 – 2013	P, t
(Patent related to dynamic logic circuits)				
Modec v. Floatec* (*firm: Duane Morris)	2011-68931	Harris County, TX	2012 - 2013	TS
(Trade Secrets and Confidential Information)				
Cian* v. Aeroflex (*firm: Skiermont)	3:11-cv-3349	ND TX, Dallas	2012	P
(Patent related to PC Compatible Modular Based Diagnostic System)				
Cian* v. Agilent (*firm: Skiermont)	3:11-cv-3351	ND TX, Dallas	2012	P
(Patent related to PC Compatible Modular Based Diagnostic System)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Cian* v. National Instruments (*firm: Skiermont)	3:11-cv-3353	ND TX, Dallas	2012 - 2013	P
(Patent related to PC Compatible Modular Based Diagnostic System)				
Cian* v. Pickering (*firm: Skiermont)	3:11-cv-3354	ND TX, Dallas	2012	P
(Patent related to PC Compatible Modular Based Diagnostic System)				
Cian* v. Spirent (*firm: Skiermont)	3:11-cv-3356	ND TX, Dallas	2012	P
(Patent related to PC Compatible Modular Based Diagnostic System)				
Internet Machines v. PLX* (*firm: Baker & McKenzie)	6:11-cv-00250-MHS	ED TX, Tyler	2012	P
(Patent re. PCI express switch)				
TPL v. Dell et al.*[3] (*firm: Hogan Lovells)	337-TA-841	ITC (Essex)	2012 - 2013	P, t, TH
(Patents related to Memory Interface Ports)				
Wacoh* v. Kionix, Inc. (*firm: Clearman Prebeg))	3:12-cv-00530	New York	2012 - 2013	P
(Patents related to inclinometer/accelerometer)				
Solid State Storage v. Fusion* (*firm: Baker Botts)	2:11-CV-391	ED TX, Marshall	2013	P
(Patents related to Memory and Memory Control)				
Smart Modular Technologies* v. Netlist (*firm: Schwegman)	2:12-CV-02319-MCE-EFB	ED CA	2012 - 2014	P
(Memory Modules)				

[3] Additional Respondents: Seiko Epson (Kirkland & Ellis), HP (Kenyon & Kenyon), Brother (Banner Witcoff), Kingston (S J Christine Yang), Fujitsu (Morrison Foerster), HiTi Digital (Eastwind Consultants), Canon (Jones Day), Acer (K L Gates), Newegg/Rosewill (Web Law)

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NXP v. RIM* (*firm: Fish & Richardson)	6:12-cv-498-ACC-GJK	MD FL, Orlando	2013 - 2014	P
(Mask pattern density)				
Kangaroo Media* v. Immersion Entertainment (*firm: Kenyon & Kenyon)	2:12-cv-00382-JFC, 2:14-cv-01536-JFC	WD PA	2012 - 2016	P, t
(Audio/Video Entertainment System patent)				
Nokia* v. HTC (*firm: Desmarais)	337-TA-847	ITC (Pender)	2012 - 2013	P, t, TH
(Signal transmission and attentuation)				
Floatec* v. Magnuson (*firm: Duane Morris)	2011-54420	61st Judicial District, Harris County, TX	2012 - 2014	TS
(Misappropriation and Misuse)				
Affinity* v. Clear Channel (*firm: Duane Morris)	1:12-CV-00205-LY	WD TX, Austin	2013 - 2015	P, t, TH
(Patent related to broadcast content)				
Synopsys* v. Mentor Graphics (*firm: Sidley Austin)	3:12-cv-06467-MMC	ND CA	2013	P, t, TH
(Patents related to logic circuit description and synthesis)				
Affinity* v. Ford (*firm: Robins Kaplan ...)	1:12-cv-00580	EDTX, Beaumont	2013 - 2014	P, t, TH
(Patents related to portable audio player)				
Affinity* v. GM (*firm: Robins Kaplan ...)	1:12-cv-00582	EDTX, Beaumont	2013 - 2014	P, t, TH
(Patents related to portable audio player)				
Nokia* v. HTC (*firm: Desmarais)	337-TA-885	ITC (Lord)	2013 - 2014	P
(Patents related to portable electronic device housing)				

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Rothbaum v. Samsung Telecom America LLC* (*firm: Choate Hall & Stewart)	11-10509 (MLW)	DMA	2013	CL, t
(Class Action)				
LendingTree* v. Zillow et al. (*firm: Sheppard Mullin)	3:10-CV-00439 FDW-DCK	WDNC, Charlotte	2013 - 2014	P, t, TH
(On-Line Mortgage Loan Transactions)				
Secure Axcess* v. Nintendo (*firm: Klemchcuk Kubasta)	2:13-CV-00032	ED TX, Marshall	2013 - 2014	P
(patents related to dual screen display)				
Fenner* v. CELLCO (*firm: Loewinsohn)	6:11-cv-348	ED TX, Tyler	2013	P
(patent related to telecommunication)				
Profectus v. Huawei, … Samsung* (*firm: Fish & Richardson)	6:11-cv-00474-MHS	ED TX, Tyler	2014	P
(patent related to digital picture frames)				
Galitski v. Samsung* (*firm: Lynn Tillotson Pinker & Cox)	3:12-CV-4782-D	ND TX, Dallas	2014 - 2015	CL, t
(Class Action)				
Chrysler* v. Norman IP Holdings (*firm: Dickstein Shapiro)	PETITION FOR IPR - U.S. PATENT NO. 5,502,689	USPTO PTAB	2014	P
(Patent related to IC clock generation)				
Allure Energy* v. Nest Labs (*firm: Dickinson Wright)	9:13-CV-00102-RC	ED TX, Lufkin	2014 - 2015	P, t, TH
(Smart Thermostat)				

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Affinity* v. Ford (*firm: Robins Kaplan ...)	WA:13-CV-363	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. GM (*firm: Robins Kaplan ...)	WA:13-CV-370	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. Volvo (*firm: Robins Kaplan ...)	WA:13-CV-366	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. Honda (*firm: Robins Kaplan ...)	WA:13-CV-367	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. Nissan (*firm: Robins Kaplan ...)	WA:13-CV-369	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. Jaguar (*firm: Robins Kaplan ...)	WA:13-CV-368	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Affinity* v. Toyota (*firm: Robins Kaplan ...)	WA:13-CV-365	WD TX, Waco	2014	P
(Patents related to wireless media connectivity)				
Trover* v. Tyco (*firm: McDole Williams)	2:13-cv-0052	ED TX, Marshall	2014	P
(Patents related to Security Cameras)				
Radiall* v. Glenair (*firm: Oliff)	2:14-CV-00822-ODW	CDCA	2014 - 2015	P
(Patent related to electrical connector)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
LunarEye* v. Independent Witness (*firm: Prebeg Faucett Abbott)	9:05-CV-00188-RC)	EDTX, Lufkin	2014 - 2015	P, t
(Patent related to trigger location telemetry)				
AMS* v. Soberlink (*firm: Lathrop & Gage)	IPR013-00577	USPTO PTAB	2014	P
(Patent related to sobriety monitoring)				
Infineon v. Volterra* (*firm: Weil Gotshal)	3:11-cv-06239-MMC	NDCA	2014	P
(Patents related to IC packaging)				
Volterra* v Primarion (*firm: Weil Gotshal)	CV-08-5129 (RS)	NDCA	2014	P
(Patents related to IC packaging)				
Infineon v. Volterra* (*firm: Weil Gotshal)	2:13-cv-684	EDTX, Marshall	2014	P
(Patents related to IC packaging)				
AMS* Reexam (*firm: Lathrop & Gage)	SN: 95/001,609	USPTO	2014 - 2015	P, t
(Patent related to alcohol event monitoring)				
Triune Systems* v. Active-Semi (*firm: Farrow-Gillespie & Heath LLC)	296-03209-2013	Collin County	2014 - 2015	TS, t
(Covenant not to compete)				
La Crosse* v. Ambient (*firm: Banner & Witcoff)	13-cv-833	WD WI	2014 - 2015	P
(Patents related to weather detectors)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Progressive Semiconductor Solutions v. Marvell Scemiconductor* (*firm: Fish & Richardson)	*Inter Partes* review petition re. 6,473,349	USPTO PTAB	2014	P
(Patent related to sense amplifiers for memory)				
Anderson v. Samsung* (*firm: Bird Marella)	SACV-13-01028	CD CA, SD	2014 - 2015	CL, t
(Class Action)				
Netlist v. Diablo* (*firm: McDermott Will & Emery)	4:13-cv-05962-YGR	ND CA, Oakland	2014 - 2015	TS, t, TH
(Technology related to Misappropriation of Trade Secret)				
Netlist v. Diablo* (*firm: McDermott Will & Emery)	4:13-cv-05889-YGR	ND CA	2014 - 2015	P
(Patents related to DIMM DDR3 SDRAM load reduction and rank multiplication)				
Spherix* v. Uniden (*firm: Skiermont Puckett)	3:13-cv-03496-M	ND TX, Dallas	2014	P
(Patents related to cordless phones)				
Spherix* v. VTech (*firm: Skiermont Puckett)	3:13-cv-03494-M	ND TX, Dallas	2014	P
(Patents related to cordless phones)				
Securus* v. Global (*firm: Gruber)	3:13-CV-03009-K	ND TX	2014 - 2017	P, t
(Patents related to telecom systems)				
Global v. Securus* (*firm: Gruber)	3:14-CV-0829-K, 3:13-CV-00713-JRS	ND TX / ED VA	2014 - 2017	P
(Patents related to telecom systems)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Trover* v. Dedicated Micro (*firm: McDole Williams)	2:13-cv-1047	ED TX, Marshall	2014 - 2015	P
(Patents related to Security Cameras)				
Gordon Howard v. LunarEye* (*firm: Prebeg Faucett Abbott)	IPR2014-00712	USPTO PTAB	2014 - 2015	P, t
(Patent related to trigger location telemetry)				
Advanced Audio Devices* (*firm: Clark Hill PLC)	IPR2014-01154	USPTO PTAB	2014 - 2015	P, t
(Patent 6,587,403 related to music jukebox)				
Advanced Audio Devices* (*firm: Clark Hill PLC)	IPR2014-01155	USPTO PTAB	2014 - 2016	P, t
(Patent 7,289,393 related to music jukebox)				
Advanced Audio Devices* (*firm: Clark Hill PLC)	IPR2014-01156	USPTO PTAB	2014 - 2016	P, t
(Patent 7,817,502 related to a personal digital stereo player)				
Advanced Audio Devices* (*firm: Clark Hill PLC)	IPR2014-01157	USPTO PTAB	2014 - 2016	P, t
(Patent 7,933,171 related to a personal digital stereo player)				
Advanced Audio Devices* (*firm: Clark Hill PLC)	IPR2014-01158	USPTO PTAB	2014 – 2016	P, t
(Patent 8,400,888 related to a personal digital stereo player)				
One-E-Way* v. Sony, Sennheiser, BlueAnt, Creative Tech, Beats, Jawbone, Jabra (*firm: Knobbe Marten, Olson & Bear)	337-TA-943	ITC (Pender)	2014 - 2018	P, t
(Patents related to bluetooth configured headphones)				

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Samsung* v. NVIDIA (*firm: O'Melveny & Myers LLP)	3:14-cv-00757	ED VA, Richmond	2014 - 2015	P
(Patents related to ICs and systems)				
Zhongshan* v. Nidec (*firm: Oliff)	IPR2015-00465	USPTO PTAB	2014	P, t
(Patent related to blower motor for HVAC system)				
Samsung* v. NVIDIA (*firm: Kirkland & Ellis)	337-TA-941	ITC (Shaw)	2015	P, t
(Patents related to ICs and systems)				
Omega* v. Calamp	6:13-cv-1950-Orl-31DAB	MD, FL	2015 - 2016	P, t, TH
(Patents related to vehicular control systems and tracking)				
Leadfactors* v. Cisco (*firm: Niro Haller & Niro)	1:13 CV 247926	CA Superior Court, Santa Clara	2015	TS
(Misappropriation of Trade Secrets, Breach of Contract)				
AVM* v. Intel (*firm: Boies, Schiller & Flexner)	1:15-cv-00033-RGA	DE	2015 - 2016	P, t, TH
(Patent related to dynamic logic circuits)				
Paice* v. Hyundia (*firm: Fish & Richardson)	WDQ-12-499	MY, Baltimore	2015	P, t, TH
(Patents related to Hybrid motor/engine control)				
Allure Energy* v. Honeywell (*firm: McKool Smith)	1:15-cv-00079-RP	WDTX, Austin	2015 - 2017	P
(Smart Thermostat)				
IV* v. Toshiba (*firm: Desmarais)	13-cv-453-SLR-SRF	DE	2015 - 2017	P, t, TH
(NAND Flash)				

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SimpleAir, Inc.* v. Amazon (*firm: Dovel & Luner)	2:14-cv-679 (JRG)	EDTX, Marshall	2015	P
(Patents related to data transmission)				
Microsemi* v. e.Digital (*firm: McDermott Will & Emery)	*Inter Partes* review petition re. 5,839,108	USPTO PTAB	2015	P
(Patent related to linked list data segment filing)				
IMS v. Micron* (*Weil Gotchal/ Orrick)	1:14-cv-01480-RGA	DE	2015 -	P
(Patents related to flash memory)				
Honeywell v. Allure* (*firm: Dickinson Wright)	IPR201501248, 01251,01253	USPTO PTAB	2015 - 2017	P
(Smart Thermostat)				
Blitzsafe* v Honda (*firm: Brown Rudnick)	2:15-cv-01274-JRG-RSP	EDTX, Marshall	2015 - 2017	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v Hyundai (*firm: Brown Rudnick)	2:15-cv-01275-JRG-RSP	EDTX, Marshall	2015 - 2017	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v Nissan (*firm: Brown Rudnick)	2:15-cv-01276-JRG-RSP	EDTX, Marshall	2015 - 2017	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v Toyota (*firm: Brown Rudnick)	2:15-cv-01277-JRG-RSP	EDTX, Marshall	2015 - 2017	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v VW (*firm: Brown Rudnick)	2:15-cv-01278-JRG-RSP	EDTX, Marshall	2015 - 2017	P, t
(Patents related to audio device integration systems)				

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3rd Eye Surveillance* v Stealth (*firm: Kennedy Law)	6:14-cv-00162 JDL	EDTX, Tyler	2015 - 2016	P
(Patents related to real-time image processing to response agency)				
3rd Eye Surveillance* v Vision Video (*firm: Kennedy Law)	6:14-cv-00161-JDL	EDTX, Tyler	2015 - 2016	P
(Patents related to real-time image processing to response agency)				
3rd Eye Surveillance* v Ft Worth / e-Watch (*firm: Kennedy Law)	6:14-cv-00725	EDTX, Tyler	2015 - 2017	P, t, TH
(Patents related to real-time image processing to response agency)				
3rd Eye Surveillance* v Uinted States (*firm: Kennedy Law)	1:15-cv-00501-CFL	Court of Federal Claims, DC	2015 -	P, t
(Patents related to real-time image processing to response agency)				
Hitachi v TPV* (*firm: O'Melveny & Myers)	2:14-cv-1121-JRG-RSP	EDTX, Marshall	2015 - 2016	P
(Patent related to LCD power and signal board arrangement)				
Nidec Motor v Broad Ocean Motor* (*firm: Locke Lord)	2:15-cv-00443	EDTX, Marshall	2016	P
(Patent related to blower motor control for HVAC)				
TracBeam* v T-Mobile (*firm: Dovel & Luner)	6:14-cv-678-RWS	EDTX, Tyler	2016	P, t
(Patents related to geographic location estimates)				
SMS v Emerson* (*firm: Davidson Berquist)	2:15-cv-00032-RWS-RSP	EDTX, Marshall	2016	P
(Patent related to a method of monitoring a protected space)				

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Prong v Sorias* (*firm: Gottlieb, Rackman & Reisman)	IPR2015-01317	USPTO PTAB	2016	P
(Patent related to attachable mobile charger)				
Skyline Software Systems v Duane Morris* (*firm: Venable)	2015-08868	Circuit Court Fairfax County	2016	P
(3D mapping technology)				
SignalQuest v Oncque* (*firm: Duane Morris)	11-cv-00392-JL	NH	2016	P
(Patents related to vibration switches)				
TiVo v Samsung* (*firm: Fish & Richardson)	2:15-CV-1503	EDTX, Marshall	2016	P
(Patent related to multimedia signal processing)				
MLC Intellectual Property v. Micron* (*firm: Fish & Richardson)	5:14-cv-03657 SI	ND CA	2014 -	P, t
(Patent related to multilevel cell storage)				
Richtek v uPi* (*firm: Hogan Lovells)	C 09-05659 WHA LB	NDCA, SF	2016	P
(Patents related to converter channel current balance and PWM circuit)				
Paice* v VW, Porsche, Audi (*firm: Fish & Richardson)	337-TA-998	ITC	2016 – 2017	P
(Patents related to hybid vehicle technology)				
Biosonix v Hydrowave* (*firm: Bradley)	4 :16-cv-00139-RC	EDTX, Sherman	2016 - 2017	P
Patent related to underwater sound)				
Univ of S FL* v Fujifilm (*firm: Dickinson Wright)	8:16-cv-01194-MSS-TGW	MDFL, Tampa	2017	P
(Patent related to Workstation Interface – Digital Mammography)				

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Cases (continued)

CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Univ of S FL * v BRIT (*firm: Dickinson Wright)	8:16-cv-03109-MSS-TGW	MDFL, Tampa	2017	P, t
(Patent related to Workstation Interface – Digital Mammography)				
Univ of IL v Micron* (*firm: Fish & Richardson)	2:11-cv-02288-SLD-JAG	CDIL, Rock Falls	2017	P, C
(Patents and contract related to use of deuterium in semicondutor processing)				
ZiiLabs v AMD* (*firm: O'Melveny & Myers)	337-TA-3189	ITC-Shaw	2017	P
(Patents related to graphics processors)				
MTL* v Sandisk (*firm: Tensegrity)	337-TA-1034	ITC-Lord	2017	P, t
(Patents related to flash memory)				
Razberi v Dynacolor* (*firm: McDole Williams)	01-16-0003-3734	AAA	2017 - 2018	C, TS, t, TH
(Arbitration related to contractual obligations)				
Seed Spring* v Microsoft (*firm: Dovel)	6 :17-cv-427-RWS	EDTX, Tyler	2017	P
(Patents related to Wirelss Location)				
TracBeam* v Microsoft (*firm: Dovel)	6 :17-cv-426-RWS	EDTX, Tyler	2017	P
(Patents related to Wirelss Location)				
TracBeam* v Cisco (*firm: Dovel)	6 :17-cv-525-RWS	EDTX, Tyler	2017 - 2018	P
(Patents related to Wirelss Location)				
Arris* v Sony (*firm: Fish & Richardson)	337-TA-1060	ITC-Lord	2017	P, t
(Patent related to Broadcast Signals)				
Vivint* v Alarm.com (*firm: Weil)	2 :15-cv-00392-CW-BCW	UT	2017 -	P, t
(Patents related to Electronic Message Delivery)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Blitzsafe* v Bosch (*firm: Brown Rudnick)	2 :17-cv-00105-JRG	EDTX, Marshall	2017 - 2019	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v Daimler & Mercedes (*firm: Brown Rudnick)	2_17-cv-00422-JRG	EDTX, Marshall	2017 – 2019	P
(Patents related to audio device integration systems)				
Blitzsafe* v BMW (*firm: Brown Rudnick)	2_17-cv-00418-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to audio device integration systems)				
Blitzsafe* v Mazda (*firm: Brown Rudnick)	2_17-cv-00423-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to audio device integration systems)				
Blitzsafe* v Mitsubishi (*firm: Brown Rudnick)	2_17-cv-00430-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to audio device integration systems)				
Blitzsafe* v Subaru (*firm: Brown Rudnick)	2_17-cv-00421-JRG	EDTX, Marshall	2017 - 2019	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v Tata & Jaguar (*firm: Brown Rudnick)	2_17-cv-00424-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to audio device integration systems)				
Blitzsafe* v Volvo (*firm: Brown Rudnick)	2_17-cv-00420-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to audio device integration systems)				
AGIS* v Huawei (*firm: Brown Rudnick)	2 :17-00513-JRG	EDTX, Marshall	2017 - 2018	P, t
(Patents related to Patents related to interactive remote communications)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
AGIS* v HTC (*firm: Brown Rudnick)	2 :17-00514-JRG	EDTX, Marshall	2017 - 2019	P, t
(Patents related to Patents related to interactive remote communications)				
AGIS* v LG (*firm: Brown Rudnick)	2 :17-00515-JRG	EDTX, Marshall	2017 - 2019	P, t
(Patents related to Patents related to interactive remote communications)				
AGIS* v Apple (*firm: Brown Rudnick)	2 :17-00516-JRG	EDTX, Marshall	2017 - 2019	P, t
(Patents related to Patents related to interactive remote communications)				
AGIS* v ZTE (*firm: Brown Rudnick)	2 :17-00517-JRG	EDTX, Marshall	2017 - 2019	P
(Patents related to Patents related to interactive remote communications)				
Arya v Dufossat* (*firm: Robert Sueiro)	4 :16-cv-03595	SDYX, Houston	2017 -	TS, C, t
(Dispute related to Trade Secrets)				
Seven Networks v Samsung* (*firm: Fish & Richardson)	2 :17-cv-00441-JRG	EDTX, Marshall	2017 - 2018	P, t
(Patents related to Power Management of Mobile Networks)				
ZF Micro Solutions* v. Tat Investment (*firm: Berger)	1-09-CV-134970	Santa Clara County	2018	C, t, TH
(Business tort, unfair practice)				
Univ of S FL* v Fujifilm (*firm: Dickinson Wright)	3:18-cv-00215-AVC	Connecticut	2018 -	P, t
(Patent related to Workstation Interface – Digital Mammography)				
Univ of S FL* v BRIT (*firm: Dickinson Wright)	3:18-CV-0250-K	NDTX, Dallas	2018 - 2019	P, t
(Patent related to Workstation Interface – Digital Mammography)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Cypress Insurance v Hynix* (*firm: Bird Marella)	C17-467 RAJ	WDWA, Seattle	2018 - 2019	C, t, TH
(Contract dispute related to product delivery)				
Belliveau* v BARCO (*firm: McKool)	1 :17-CV-00379-SS	WDTX, Austin	2018	C, t
(Patent portfolio liceinsing dispute)				
MPS* v Intersil (*firm: Perkins	16-1125-LPS	DE	2018 -	TS, t
Trade Secret dispute)				
GoGo v Squire Patton Boggs* (*firm: Cozen O'Connor)	2016-L-007789	Cook County, IL	2018 - 2019	P
(Patent Malpractice claim)				
X2Y* v Intel (*firm: Dovel)	3:18-cv-1394-HZ	DOR, Portland	2018 - 2020	P
(Patents related to package layer metalization)				
Power Integration* v On Semi (*firm: Fish & Richardson)	1:16-cv-06371-BLF	NDCA, San Jose	2019 - 2019	P, t
(Patents related to power converter regulation)				
ON Semi v Power Integration* (*firm: Fish & Richardson)	1:17-cv-00247-LPS-CJB	DE	2019 - 2019	P, t
(Patents related to power converter regulation)				
Semcon* v Amazon (*firm: Brown Rudnick)	2 :18-CV-00192-JRG	EDTX, Marshall	2019	P
(Patent related to Adaptive Power Control)				
Semcon* v Asustek (*firm: Brown Rudnick)	2 :18-CV-00193-JRG	EDTX, Marshall	2019	P
(Patent related to adaptive power control)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Semcon* v Kyocera (*firm: Brown Rudnick)	2 :18-CV-00197-JRG	EDTX, Marshall	2019	P
(Patent related to adaptive power control)				
Innovation Sciences* v Amazon (*firm: Davidson Berquist)	4 :18-cv-00474-ALM	EDTX, Sherman	2019 - 2020	P, t, TH
(Patent related to Internet communication)				
Innovation Sciences* v HTC (*firm: Davidson Berquist)	4 :18-cv-00476-ALM	EDTX, Sherman	2019 - 2020	P, t
(Patent related to Internet communication)				
Innovation Sciences* v Resideo (*firm: Davidson Berquist)	4 :18-cv-00475-ALM	EDTX, Sherman	2019 - 2020	P, t
(Patent related to Internet communication)				
Innovation Sciences* v Vector (*firm: Davidson Berquist)	4 :18-cv-00477-ALM	EDTX, Sherman	2019	P
(Patent related to Internet communication)				
CXT* v JC Penny (*firm: Brown Rudnick)	2:18-cv-00171-RWS-RSP (lead) 2:18-CV-233-RWS-RSP	EDTX, Marshall	2019 - 2020	P, t
(Patents related to storage management and information distribution)				
Photonics* v Lenovo (*firm: Brown Rudnick)	1:18-cv-00489-MN	DE	2019	P
(Patents related to GDS-II Layout)				
Quest NetTech Corp* v Apple (*firm: Brown Rudnick)	2 :19-CV-00118-JRG	EDTX, Marshall	2019 - 2020	P
(Patent related to programmable credit card system)				

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Pilot, Inc.* v Schumacher (*firm: Bradford)	1:19-cv-05982-EEC	NDIL, Eastern Div	2019 -	P
(Patents related to battery chargers)				
Vocalife* v Amazon (*firm: Brpwn Rudnick)	2 :19-cv-00123-JRG	EDTX, Marshall	2019 - 2020	P, t, TH
(Patent related to microphone array)				
Semcon* v Vuitton (*firm: Brown Rudnick)	2 :18-CV-00197-JRG	EDTX, Marshall	2019 -	P, t
(Patent related to adaptive power control)				
Semcon* v Shenzhen (*firm: Brown Rudnick)	2 :18-CV-00197-JRG	EDTX, Marshall	2019 -	P, t
(Patent related to adaptive power control)				
Ultravision* v GoVision (*firm: Brown Rudnick)	2:18-cv-00100-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v Shenzhen (*firm: Brown Rudnick)	:18-cv-00103-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v Aoto (*firm: Brown Rudnick)	2:18-cv-00113-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v Leyard (*firm: Brown Rudnick)	2:18-cv-00102-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v NEC (*firm: Brown Rudnick)	:18-cv-00150-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to Modular Display Panels and LED Lighting)				
Ultravision* v Prismaflex (*firm: Brown Rudnick)	2:18-cv-00108-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Ultravision* v Unilumin (*firm: Brown Rudnick)	2:18-cv-00116-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v Yaham (*firm: Brown Rudnick)	2:18-cv-00118-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Ultravision* v Absen (*firm: Brown Rudnick)	2:18-cv-00112-JRG-RSP	EDTX, Marshall	2019 -	P
(Patents related to modular display panels and LED lighting)				
Birchett* v City of Fort Worth (*firm: Kennedy Law)	DC-19-06941	Dallas County	2019 -	C, t
(Whistleblower)				
Innovation Sciences* v HTC (*firm: Davidson Berquist)	337-TA-1180	ITC	2020 - 2020	P, t
(Patent related to wireless communication)				
Innovation Sciences* v Resideo (*firm: Davidson Berquist)	337-TA-1180	ITC	2020	P, t
(Patent related to Internet communication)				
CXT* v Neiman Marcus (*firm: Brown Rudnick)	2:19-cv-00270-RWS-RSP	EDTX, Marshall	2020 -	P
(Patents related to storage management and information distribution)				
CXT* v General Nutrition (*firm: Brown Rudnick)	2:19-cv-00271-RWS-RSP	EDTX, Marshall	2020 -	P
(Patents related to storage management and information distribution)				
CXT* v Steven Madden (*firm: Brown Rudnick)	2:19-cv-00272-RWS-RSP	EDTX, Marshall	2020 -	P
(Patents related to storage management and information distribution)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Consolidated* v Amazon (*firm: Devlin Law)	1 :19-cv-01715-RGA	DE	2020 -	P, t
(Patents related to on-line shopping)				
Consolidated* v Ford (*firm: Devlin Law)	1 :19-cv-01916-RGA	DE	2020 -	P, t
(Patents related to on-line shopping)				
Consolidated* v JC Penney (*firm: Devlin Law)	1 :19-cv-01918-RGA	DE	2020 -	P, t
(Patents related to on-line shopping)				
Consolidated* v Ebay (*firm: Devlin Law)	1 :19-cv-01580-RGA	DE	2020 -	P, t
(Patents related to on-line shopping)				
Consolidated* v Walmart (*firm: Devlin Law)	1 :19-cv-01581-RGA	DE	2020 -	P, t
(Patents related to on-line shopping)				
Semcon* v TCT Mobile (*firm: Brown Rudnick)	2 :18-CV-00194-JRG	EDTX, Marshall	2020 -	P
(Patent related to adaptive power control)				
BNR v Samsung* (*firm: Fish & Richardson)	2:19-cv-00286-JRG	EDTX, Marshall	2020	P
(Patents related to portable communication devices)				
AGIS* v Google (*firm: Brown Rudnick)	2:19-cv-00361-JRG	EDTX, Marshall	2020 -	P, t
(Patents related to interactive remote communications)				
AGIS* v Waze (*firm: Brown Rudnick)	2:19-cv-00359-JRG	EDTX, Marshall	2020 -	P, t
(Patents related to interactive remote communications)				
Burke* v City of Fort Worth (*firm: Kennedy Law)	DC-19-07239	Dallas County	2020 -	C, t
(Whistleblower)				

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CASE[1]	CASE NUMBER	LOCATION	YEAR	TYPE[2]
Infinera v Oyster Optics* (*firm: Davidson Berquist)	IPR2020-00325	PTAB	2020 -	P, t
(Patent related to fiber optic telecommunications)				
Blitzsafe* v GM (*firm: Fabricant)	2 :19-cv-00403-JRG	EDTX, Marshall	2020 -	P, t
(Patents related to audio device integration systems)				
Blitzsafe* v FCA (*firm: Fabricant)	2 :19-cv-00378-JRG	EDTX, Marshall	2020 -	P, t
(Patents related to audio device integration systems)				
Kuster v Western Digital* (*firm: Shearman & Sterling)	6 :20-cv-00563	WDTX, Waco	2020 -	P, t
(Patent related to memory stack storage)				
TruSolis* v Eaton (*firm: Duane Morris)	6 :19-cv-00656-ADA	WDTX, Waco	2020 -	P
(Patent related to a light-generating system)				
RJR v PMI* (*firm: Latham Watkins)	1:20-cv-00393-LO-TCB	EDVA, Alexandria	2020 -	P
(Patents related to e-cigarette controls)				
BMW v Omega Patents* (*firm: Allen Dyer)	IPR2021-00181	PTAB	2021 -	P
(Patent related to remote start)				
Pilot* v The NOCO Co (*firm: Bradford)	2 :20-cv-01452-SRB	AZ	2021 -	P
(Patents related to auto chargers)				

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OTHER MATTERS

I have worked with other clients in various areas of my expertise, including "system, product, and process investigation," "patent valuation," "product liability and insurance claim investigation," "quality systems consulting and engineering," and "IP licensing." This work generally relates to patents and may involve analysis of products either defensively or offensively. In no case does any of the work involve design of circuits, processes, packaging, software, or systems.

Non-confidentially, I have represented a radiation effects testing company, ICS Radiation Technology. Further, I have worked with investment companies, such as Hatcreek Partners, reviewing potential investment opportunities, and have participated as a technical advisor to nLine Corporation, a company that developed a product for semiconductor wafer inspection using holographic High Aspect Ratio Inspection (HARI) technology. Work associated with each of these matters occurred more than 10 years ago.

These and other non-confidentially related companies are:

The Aspire International Foundation (2019-present)
- Partner;
- Rediscovering and redefining identity and purpose through experiential equine learning programs;
- Not assigned any patents and not engaged in any IP related activities.

Casualty Consulting Group of America (2013-present)
- Partner;
- Assessment of structural damage caused by extreme weather events;
- Not assigned any patents and not engaged in any IP related activities.

VCSY (2013-present)
- Advisory board Member;
- Technology related to encrypted communication.

Bethel Cannon Group / Bethel Cannon Holdings (2011-present)
- Partner;
- Counseling / Event / Retreat Center / Hunting Lodge;
- Not assigned any patents and not engaged in any IP related activities.

Spirit Song Youth Equestrian Academy / Spirit Song Holdings (2011-present)
- CEO;
- Equine Assisted Learning Program for abused / traumatized youth, families, corporations, and churches;
- Not assigned any patents and not engaged in any IP related activities.

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OTHER MATTERS (continued)

Novo Tellus Capital Partners (2016-2017)
- Novo Tellus is an investment firm. I served as a technical advisor in reviewing the technology and contracts of investment opportunities.

UTAC (2008-2016)
- Technical consultant in matters related to packaging test and assembly, patents, and contracts

ICS Radiation Technology (1988-2009)
- Consulting work related to nuclear radiation effects testing.

Creative Management Consultants (CMC) (2003-2004)
- Consulting work related to Internet services, such as access service to clients and web site hosting services; providing business co-op services and internet product purchasing sites.

Hatcreek Partners (1999-2003)
- Hatcreek Partners is an investment firm. I served as a technical advisor in reviewing the technology of investment opportunities.

nLine Corporation (1999-2003)
- Member of Technical Advisory Board;
- nLine Corp.'s business related to semiconductor holographic High Aspect Ratio Inspection (HARI) technology.

Texas Instruments (pre 2002)
- Patent evaluation and application consulting.

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joemc@ieee.org	email

<end>

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