



## W. Edward Ramage

Shareholder

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Edward Ramage concentrates his practice in the areas of patent and intellectual property law and litigation, including the protection and management of intellectual property asset portfolios.

Mr. Ramage's patent prosecution experience includes preparing and prosecuting applications for medical devices, health care IT systems, oil and gas technology, computer-implemented business methods, computer software and hardware systems and networks, fabrics, film labels and adhesives, enhanced petroleum recovery, and electronic and mechanical devices.

His litigation experience includes copyright, patent, trademark and trade dress litigation in federal and state courts, including Inter Partes Review (IPR) and Covered Business Method (CBM) actions, as well as Post Grant Review proceedings before the Patent Trial and Appeals Board (PTAB).

He is licensed to practice before the U.S. Patent and Trademark Office, and is admitted to the United States Sixth Circuit Court of Appeals and Federal Circuit Court of Appeals.

He graduated from Harvard University cum laude with a degree in Geological Sciences, and received his Engineer (Master's) degree from Stanford University, where he studied at the Stanford University Petroleum Research Institute. He was employed as a petroleum engineer with Shell Offshore, Inc. in New Orleans, Louisiana for four years before attending the Vanderbilt School of Law. While at Shell Offshore, Inc., he designed and programmed the strategic planning program for calculating the comparative economics and production of all oil and gas reserves for all divisions of the company, and designed and programmed the database program for the monitoring and reporting of wellhead pressures for production platforms in the Gulf of Mexico. He also was employed as a petroleum consultant for two years by Warren K. Kourt & Assoc. in Palo Alto, California.



### Representative Matters

- Successfully defended two patents in Inter Partes Review (IPR) before PTAB.
- Represented a petitioner in a Covered Business Method (CBM) proceeding before PTAB.
- Successfully invalidated patent in Inter Partes Re-exam proceeding.
- Counsel to international corporation for patent matters.
- Counsel to national bank for Internet security.
- Serve as patent counsel to a national financial services company.
- Serve as patent counsel to an independent engineering firm designing trusses for space-based applications.
- Serve as patent counsel to an international machinery and replacement parts manufacturer.
- Won judgment for a national restaurant chain against a competitor for trade dress infringement.



### Professional Honors & Activities

- Chair – Baker Donelson's Intellectual Property Group (2006 – 2019)
- Listed in *The Best Lawyers in America*® for Copyright Law (2013, 2014, 2017 – 2023); Patent Law (2024 – 2026); Litigation - Patent (2025 – 2026)

- Member – American Intellectual Property Lawyer's Association, Member of PCT Issues, Management of IP Assets, and Patent Law Committees
- Member – Intellectual Property Owners Association
- Member – American Bar Association, Section on Litigation, Intellectual Property
- Past Adjunct Professor – Vanderbilt University School of Law, Environmental Law
- Listed in *Mid-South Super Lawyers* (2007)



## Patent Prosecution and Analysis

### *Medical Devices & Technology*

- Intraocular Multifocal Lens
- Corneal Surgical Instruments
- Image Guided Surgery (IGS) Trackers
- Image Segmentation of Human Organs
- Ablation Needle Localization
- Irreversible Electroporation (IRE) Guidance Collar
- Abdominal Surface Matching for Image-Guided Therapy (IGT)
- Tracked Surgical Tool Adapter
- Ultrasound Tracking Adapter
- Chitosan-Coated Calcium-Sulfate for Medicament Delivery
- Chitosan/Nanocrystalline Hydroxyapatite Composite Microsphere Scaffolds
- Photonic Band Gap (PBG) Multilayer
- Optical Sensor Based on Surface Electromagnetic Wave Resonance in PBG Materials
- Method for Corneal Reformation
- Medicine Cap Timing Apparatus
- Device for Single Parameter and Multiparameter Phenotyping of Cells
- Minoxidil Colorant
- Teeth-Whitening Formulation
- Optoacoustic Glucose Monitoring
- Blood Glucose Monitoring Strip
- LED Light Therapy Devices
- Photobiomodulation Pad for Wound Healing
- Skin Puncturing Safety Needle
- EKG Mask

### *Health Care Information Technology (IT)*

- Individual Health Record (IHR) System
- Health Care Delivery System
- Anesthesiology Tracking and Billing System
- Pathology Lab Management System
- Diagnosis Through Computerized Image Analysis
- Patient Flow Tracking with RFID
- Medical Imaging Storage and Transmission System
- Investment Evaluation System
- System for Evaluating Patient Care Outcomes
- Health care Industry Self-Pay Management System
- In-Home Health Monitoring Apparatus
- Medication Adherence System
- Emergency Medical Services Registration System
- Diagnostic Testing System

## *Computer-Implemented Business Methods*

- Mobile Device Peripherals Management System
- Financial Planning and Management System
- Real-Estate Appraisal Evaluation and Scoring System
- Flight Operations Center Unified Simulator
- Disaster Training, Simulation and Response System
- Asset Management System
- Insurance Claims Processing System
- Internet Access Gating
- Method for Correcting Data in Financial Documents
- System for Correcting MICR Data Fields
- Ambient Software Integration System
- Knowledge Discovery Agent System
- Voice-Driven User Interface
- Agent-Based Clustering of Abstract Similar Documents
- Hierarchical Ant Clustering and Foraging
- Characterizing Software Agent via Multi-Agent Clustering
- Self-Organizing Agent-Based Distributed Ensemble Optimization
- GPS Rating System
- Gasoline Savings Identification System
- Merchandising Amplification via Social Networking System
- Target Advertising System
- System for Creating Customer Intimacy with a Brand with Viral Marketing
- Customer Referral Program
- Travel Reservation System
- Automated Ticket Processing System
- Method for Buying and Selling Stocks and Securities
- Relationship Performance System
- Work Roles Yields Management System
- Reciprocal Data File Publishing and Matching System
- System for Dynamically Applying Line Breaks in Text
- Affect-Sensitive Intelligent Tutoring System
- System for Efficient Forwarding Information Base (FIB) Caching
- Multi-Channel Employee Training System
- Corporate Actions Monitoring and Notification System
- Content Delivery System via Distributed Servers
- Legal Project Management System and Method
- Website Content Analysis and Scoring System
- Task Prioritization System
- Rule 10b-5 Trading Management System
- System for Detecting, Analyzing and Controlling Hidden Data Embedded in Computer Files
- System for the Secure Processing of Securities Transactions
- Distributed Access Point Authentication and Access Control with Validation Feedback System
- Document Library Indexing System
- Mapping Landmark Position and Orientation for Inventory Management

## *Alternative Energy & Petroleum (Oil and Gas)*

- Downhole Packer Testing Apparatus
- Hydraulic Fracturing with Cross-Linked Gels

- Wellbore Drilling Advisory System
- Offshore Drilling and Production Platform Training System
- Wastewater Remediation and Treatment System
- Toxic Metal Adsorbent Composition
- Hybrid Trailer with Regenerative Braking
- Compressed Air Engine and Power Train System
- Vertical Wind Mill
- Multiple Wind-Turbine System
- Wind Aeolipile with Variable Diameter Interior
- Debris Material Tracking of Removal and Processing
- Switched-Reluctance Apparatus for Hybrid Vehicles

#### *Sporting Goods & Games*

- Helical Golf Tee
- Golf Club/Wedge
- Shifting Center-of-Balance Weights
- Electric-Powered Kart
- Remote-Controlled Speed Controller for Go-Kart
- Sweat Liner for Sunglasses
- Game for Teaching Fundamental Financial Skills and Responsibility
- Chess Variant
- Privacy Wind Screen
- System for Calculating Optimum Hunting and Fishing Times
- Softball Pitching Mat
- Baseball Bat with Variable Weighting
- Portable Shooting Range
- Sports Training Instruments with Variable Resistance (golf, baseball, softball, lacrosse, tennis, hockey, field hockey)
- Combined Speed Detection, Video and Timing Gun
- Game Table for Marbles
- Desk for Use While Exercising

#### *Electro-Mechanical & Industrial*

- Universal Variable Transmission Line Hanger for Telecom Cables
- Panelboard and Electrical Power Distribution System
- Stimulated Emission and Enhanced Detection of Chemical Compounds
- Deployable Rectangular Truss Beam
- Deployable Triangular Truss Beam
- Process for Producing Foamable Metals
- Alert System for Commercial Dishwashing Sanitizing Agent
- Vapor Removal System for Commercial Dishwasher
- Shower Trench Drain
- Electric Generator and Motor Drive
- Traction Drive Control System for Small Motor Vehicles
- Adjustable Spindle Assembly for Grass Trimmer
- Portable Rotisserie Grill
- Cooktop Grill
- Flexible Size Adjustable Filter Element
- Formed Building Element for Construction
- Apparatus for Cooling AC Condensing Coils

- Motorcycle Fender
- Motorcycle Mounting Bracket for Portable Computing Device
- Light Bulb Extractor
- Low-weight Mobile Armored Vehicle with Assault Gun
- Film Label Coating
- Reverse-Printed Film Labels
- Wet Glue Labeling Apparatus
- Method for Applying Cast Finish to Printed Substrate
- Kiosk for Providing Insurance Services and Products
- Ultrasonic Leak Detection for Automobile Production Line
- Laser for Frequency and Carrier-Envelope Offset Non-Destructive Testing
- Secure Door Lock
- Light Switch Cover
- Dishwasher Mounting Device
- Ceiling Fans
- Reusable Microfiber Cleaning Fabric
- Mattress Protective Flame Barrier
- Awning Brackets and System
- Sunscreen Application Booth
- Piano Wire Manufacturing Method
- Treadmill for Use With Wheelchair
- Adjustable Wheelchair Handrim
- Motion-Based Power Assist System for Wheelchairs
- Scissor Lift
- Tire Rotary System
- Greensand Mold Evaluation Apparatus
- Automatic Calibration of Stereo Images for Robot System
- End Effector for Robotic Arm or Manipulator
- Image-Based Inventory Tracking and Management
- Distributed Printing System and Kiosk
- Electric Solenoid with Adaptable Connectors and Mountings
- Spherically Housed Loudspeaker System
- Robotic Tracked Climbing Machine



## Publications

- "Disney Accused of Being Real Pirate in Pirates of the Caribbean," *IAM Weekly International Report* (May 2019)
- "Supreme Court Limits Recoverable Fees and Costs in Copyright Litigation," *IAM Weekly International Report* (March 2019)
- "USPTO Report Profiles Women Inventors Named on US Patents," *IAM Weekly International Report* (February 2019)
- "New USPTO Guidance on Patentable Subject Matter," *IAM Weekly International Report* (January 2019)
- "U.S. Supreme Court to Decide Whether Trademark Licences Can Survive Bankruptcy," *IAM Weekly International Report* (November 2018)
- "Music Modernisation Act Brings Copyright Closer to the 21st Century," *IAM Weekly International Report* (October 2018)
- "USPTO Must Pay Its Own Attorneys' Fees," *IAM Weekly International Report* (August 2018)
- "Who is the Real MASTERMIND?," *IAM Weekly International Report* (June 2018)

- "Multi-district States and Burden of Persuasion: Federal Circuit Resolves Issues of Venue," *IAM Weekly International Report* (June 2018)
- "Supreme Court Rules PTAB Proceedings Constitutional," *IAM Weekly International Report* (May 2018)
- "Copyright Protection for Graffiti and Street Artists," *IAM Weekly International Report* (March 2018)
- "Federal Circuit Allows Appeal of PTAB Time-Bar Decisions," *IAM Weekly International Report* (January 2018)
- "Winner (or Loser) Pays USPTO Fees," *IAM Weekly International Report* (September 2017)
- "PTAB Not Constrained by Parties' Constructions of Claim Terms," *IAM Weekly International Report* (May 2017)
- "'Private' Sale of Invention Bars Patents," *IAM Weekly International Report* (May 2017)
- "Standing Required to Assert Co-Inventorship of Patents," *IAM Weekly International Report* (April 2017)
- "Supreme Court Rules that Laches is Not a Defence for Patent Damages," *IAM Weekly International Report* (March 2017)
- "Preliminary Injunction Affirmed Despite Initiation of PTAB Post-Grant Review Proceeding," *IAM Weekly International Report* (February 2017)
- "'Injury-in-Fact' Standing Required to Appeal PTAB Decision," *IAM Weekly International Report* (January 2017)
- "'Visually Negligible' is Definite Enough," *IAM Weekly International Report* (January 2017)
- "Scope of CBM Review is Limited," *IAM Weekly International Report* (December 2016)
- "Sims PlumbBob Flash Drive May Be Copyrightable," *IAM Weekly International Report* (September 2016)
- "PTAB Arbitrary in Not Allowing Claim Amendments," *IAM Weekly International Report* (September 2016)
- "Biosimilars 180-Day Notice is Mandatory," *IAM Weekly International Report* (July 2016)
- "Same-Day Continuation Patent Applications OK'ed," *IAM Weekly International Report* (June 2016)
- "U.S. Supreme Court to Review Laches in Patent Infringement Cases," *IAM Weekly International Report* (May 2016)
- "Google Book Project Gets Green Light," *IAM Weekly International Report/Lexology* (April 2016)
- "Another Genetic Testing Patent Found Invalid," *IAM Weekly International Report* (April 2016)
- "Card Game Too Abstract to be Patentable," *IAM Weekly International Report* (March 2016)
- "Federal Circuit Recognizes Patent Agent Privilege," *IAM Weekly International Report* (March 2016)
- "Apple Loses \$120 Million Infringement Verdict," *IAM Weekly International Report* (March 2016)
- "No Internal Exhaustion for U.S. Patents," *IAM Weekly International Report* (March 2016)
- "New Pleading Rules for Patent Infringement Cases," *IAM Weekly International Report* (February 2016)
- "Federal Circuit Strikes Down Patent Directed to Patent-Ineligible Subject Matter," *IAM Weekly International Report* (February 2016)
- "After 'Alice,' Are Software Patents the Answer?," *The National Law Journal* (January 2016)
- "PTAB Proceedings are Constitutional," *IAM Weekly International Report* (January 2016)
- "Are Computer Implemented Patents Going Extinct?," *IAM Yearbook* (January 2016)
- "The TPP Battle Begins," *IAM Weekly International Report* (December 2015)
- "Business Method Patents Under Fire in the United States," *IAM Yearbook* (2015)
- "The Unsettled State of Business Method Patents," *IP Value* 2014 (2014)
- "Inter Partes Review Burden of Proof Does Not Shift to Patent Owners," *IAM Weekly International Report* (August 2016)
- "The Impact of Mayo v Prometheus," *IP Value* 2013 (2013)
- "The move to international exhaustion in the United States," *IP Monetisation Yearbook* (2013)
- "Impact of the America Invents Act on Patent Valuation," *IP Monetisation Yearbook* (2012)



- "Patent Reform's 'Brave New World'," *The Mississippi Bar Newsletter*, Intellectual Property Section (2012)
- "Gene Patents Survive in the United States...For Now," *IP Value 2012* (2012)
- Co-author – "Patent Reform's 'Brave New World'," *Bio-IT World* (September 2011)
- Co-author – "*Bilski*'s Impact on Medical Method Patents," *IAM Yearbook* (July/August 2011)
- "Business Methods Patents Survive... For Now," *IP Value 2011* (2011)



## Speaking Engagements

- "Preparing for Competitive IP Assertion and Litigation Threats," IP Watchdog Webinar (November 2018)
- "Copyright Infringement in the Cloud," ABA Intellectual Property Litigation Roundtable Series (March 2016)
- "Copyright Separability," ABA Intellectual Property Litigation Roundtable Series (October, 2015)
- "The 3D Revolution: IP Issues Arising From 3D Printing," ABA Intellectual Property Litigation Roundtable Series (February 2015)



## Education

- Vanderbilt University Law School, J.D., 1993
- Stanford University, Engineer (Petroleum Engineering and Business Management), 1986. Master's thesis on the comparative economics of steam-flooding vs. in-situ combustion.
- Harvard University, B.A. cum laude (Geological Sciences), 1984. Senior honors thesis on galena lead ore formation in the Viburnum Trend based on the chemical composition of associated dolomite crystals as determined by scanning-electron microscopy.



## Admissions

- U.S. Patent and Trademark Office, 2002
- U.S. Court of Appeals for the Federal Circuit
- U.S. Court of Appeals for the Sixth Circuit
- U.S. District Court for the Middle and Eastern Districts of Tennessee
- Tennessee, 1993