

Electrical & Electronics

Our patent attorneys counsel clients concerning a wide array of technologies in the electrical systems, electronics and related technical fields. Our experience covers analog and digital circuitry, semiconductors, micro-electromechanical machines (MEMS), motors, optics, superconducting magnets, signal processing and telecommunications. We conduct patent searches, prepare and prosecute U.S. and international patent applications, enforce patents, render right-to-use and validity opinions, counsel clients regarding infringement and licensing issues, and conduct due diligence studies.

CAPABILITIES

- Patent application preparation and prosecution
- Patentability analysis
- Preparing freedom-to-operate, invalidity and non-infringement opinions
- Due diligence analysis
- Patent landscape analysis
- Design-around analysis
- Post-grant proceedings at the USPTO
- Foreign opposition proceedings
- Litigation

Representative Electrical & Electronics Technologies

- Appliances
 - Commercial kitchen appliances
 - Home appliances
- Autonomously-operated machines
- Communication devices
 - Broadband receivers

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- Video transceivers
- Wireless communication systems
- Control systems
 - Closed-loop feedback control systems
 - Controls for HVAC
 - Distributed control systems
 - Fault communication
 - Industrial automation
- DVD reconditioning machines
- Data storage
 - Static random access memory (SRAM) cells
- Electric elements
 - Superconducting magnets
- Electric heating
 - RF heating systems
- Electronic circuitry
 - Analog and digital signal conditioning amplifiers and instrumentation
- Imaging and inspection devices
 - Furnace tube inspection systems
 - Microwave and millimeter wave imaging
 - Ultrasound measurement systems
- Light emitting diodes (LEDs)
- Location positioning systems
 - Global Positioning System (GPS) receivers
- Medical devices
 - Electrical stimulation devices
 - Enteral Feeding Pumps
 - Infusion pumps
 - Medical devices for delivering light and ultrasound
 - Ocular treatment devices

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- Spectroscopy
- Meters and testing instruments
 - Electric meters
 - Electrical contact test probes
 - Flowmeters
 - Radar altimeters
 - Smart utility meters
 - Thermometers
 - Net oil and gas well test systems
- Motors
 - Electronically commutated motors
 - Piezoelectric motors
 - Rotary motors
 - Switched reluctance motors
- Optical devices
 - LiDAR sensors
 - Optical switches and amplifiers
- Power generation and storage
 - Flow cell batteries and fuel cells
 - Thermoelectric devices
- Radio frequency identification (RFID) tags and systems
- Semiconductors
 - Integrated circuit architecture and manufacturing processes
 - Semiconductor manufacturing
- Sensors and user interfaces
 - Data input devices
 - Digital cameras
- Sound equipment
 - Internet Protocol (IP) speakers
- Voting equipment

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RELATED CAPABILITIES

Intellectual Property & Technology

Patent Preparation & Prosecution

Mechanical

Chemical & Pharmaceutical

Software & Computer Systems

Biotechnology

NEWS

Robert Bain, David Kim Named to "Best IP Attorneys" by *St. Louis Small Business Monthly*

01.11.2023

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Christina Arnone, Bill Everding and Sarah Lintecum Struby Recognized as Up & Coming Attorneys by *Missouri Lawyers Weekly*

08.22.2022

Robert Bain Featured in *St. Louis Small Business Monthly's* "Top 100" Edition

04.01.2022

Robert Bain Named to "Best IP Attorneys" by St. Louis Small Business Monthly

01.05.2022

Patent Agent Emmalie Gullede Joins Stinson in Wichita

10.29.2021

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