

COMPUTER HARDWARE

Many times, the best protection available for our clients comes from a thorough and creative approach in preparing and prosecuting computer hardware patent applications. In the computer hardware field, our firm has been at the forefront of protection for many technologies, including semiconductor technology for computer networking applications and computer network routing technology.

Our firm's practice includes experience with:

Processing

- Microcontrollers
- Automated test equipment (ATE)
- Computer architecture
- Semiconductor circuit structures
- Programmable processors
- Digital signal processing
- Computer logic circuits
- Network hardware (wired and wireless)
- Graphics and image processing
- Hardware implemented methods

Memory/Data Storage

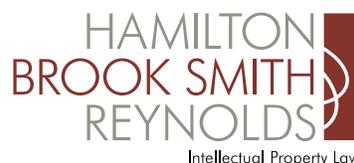
- Storage area networks (SAN)
- Caching systems
- Memory cells
- Memory systems

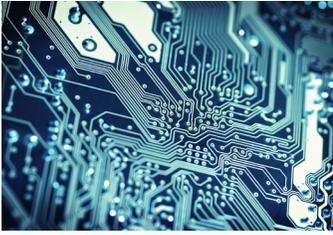
Related Applications

- Field-programmable gate arrays (FPGAs)
- Complex programmable logic devices (CPLDs)
- Application-specific integrated circuits (ASICs)
- Hardware/software co-design
- Fault tolerance
- Robotics
- Multimedia systems
- Neural networks/predictive devices
- Printed circuit board design
- Hardware verification, validation, reliability, testing, simulation, and prototyping

This complex field requires intensive technical concentration for sound intellectual property protection. Our attorneys practicing in this area hold scientific degrees specifically in electrical and computer engineering, applied mathematics and computer science, or physics. Many have advanced degrees in these fields and/or extensive hands-on experience from being employed as electrical or software engineers.

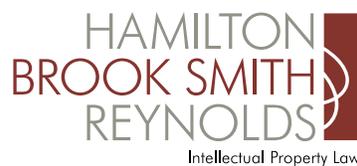
Attorneys at Hamilton Brook Smith Reynolds carefully tailor claim language to obtain broad coverage at the boundaries of existing technologies. We have successfully overcome Patent Office patentable subject matter rejections for claimed inventions involving an algorithm, a mathematical manipulation, or a method of doing business.





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Our computer hardware and software attorneys hail from a variety of industries, enabling our firm to handle a wide spectrum of computer-based technologies. They have supported clients' intellectual property needs in the area of computer communications, such as Multiprotocol Label Switching (MPLS) networks, optical local area networks (LANs) and wide area networks (WANs), and storage area network (SAN) topologies. We have prosecuted patent applications for many data processing systems, such as object modeling and CAD systems, database management systems, speech processors, and predictive simulators. Our experience with computer hardware inventions covers aspects of microelectronics, such as deposition and growth of semiconductor materials, ion implantation, and silicon-on-insulator (SOI) actuators/microsensors. We also have dealt with peripherals, such as headset computers, micro-displays, and Bluetooth® devices.



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