



COMPUTER SOFTWARE

Software patent protection has been evolving almost as rapidly as software itself. We constantly monitor the latest developments and issues related to software protection, both in the United States and abroad. We adjust our practices so that our prosecution services for our clients reflect the latest state of the law for software protection.

Our attorneys have a rich background in software engineering, computer science, electrical engineering, and related fields. We know the mind-set and viewpoint of software engineers and can speak their language. We have successfully patented software and litigated software cases for well-known Fortune 500 software and computer corporations as well as start-up companies.

This area of our firm's practice encompasses the protection of innovation in diverse areas of software technology, such as:

Processing and Modeling

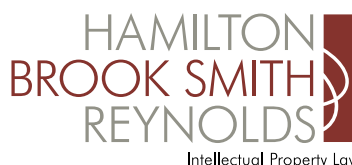
- Mobile applications
- Medical monitoring, improvement, control, and data processing
- Neural networks and expert systems
- Trusted computing technologies
- Robotics
- Performance monitoring and management
- Interactive training and decision analysis applications
- Modeling of physical and chemical processes
- Control and management of industrial facilities
- Software to simulate/verify hardware
- Hardware/software co-design
- Internet applications, such as ad serving systems, electronic commerce applications, e-learning and online presentation systems, media players, recommendation systems, search engines, social networking tools, voice-over-IP (VoIP) systems, and web indexing systems
- Compression/decompression
- Interactive voice response (IVR) systems, such as for banking, airline, and automotive speech recognition systems

Intelligent Software/Artificial Intelligence

- Predictive modeling
- Proactive monitoring
- Report or alert generation, including alternative modes of operations
- Synthesizing data
- Data collection and analysis for pattern formation
- Electronic design automation (EDA) software

Software Applications

- Distributed computing
- Instructions sets and microcode
- Business applications
- Operating systems for multiple platforms
- Software development and management, such as integrated development environments (IDEs), compilers/interpreters, and revision management systems





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Networks

- Network systems, such as neural networks, network server management, and distributed computing
- Internet and e-commerce applications
- Control and management of computer networks
- Network server management
- Network protocols/algorithms
- Wired and wireless networks
- Fault tolerance

Database and Storage

- Data structures
- Data processing
- Memory organization, control and optimization
- Storage Area Network (SAN) management
- Database management systems

Video and Imaging

- Graphical user interfaces (GUIs)
- Graphics and image processing, such as Computer Aided Design (CAD) systems, computed tomography systems, machine vision, and modeling systems
- Processing and managing of video data and streams
- Video streaming systems, such as over-the-top (OTT) systems, set-top-box (STB) systems, video-on-demand (VOD) systems, and electronic program guides (EPGs)
- Videoconferencing systems

Security and Coding

- Encryption and decryption methods
- Security techniques and systems, such as digital rights management (DRM) and network intrusion detection systems
- Data compression/decompression
- Computer access control
- Java programming/Java Virtual Machine (JVM)

Inventions that involve subject matter related to software present unique challenges because of the nature of software. Our attorneys are familiar with those challenges and understand the techniques necessary to obtain the patent protection you need.

Our firm's attorneys have extensive experience working with Patent Examiners to successfully advance patent applications into issued patents. Our educational and vocational backgrounds, combined with our constant vigilance, enable us to leverage changes in related patent laws, rules, and regulations into meaningful protection for our clients' innovations.

In the computer software field, Hamilton Brook Smith Reynolds has played a key role in patenting fundamental technologies, such as spreadsheet software, fonts for printer applications, and some of the first speech-to-text translation technology for various well-known companies. Our attorneys have also patented digital image processing technology and early United States patents for web-based search tools as well as software for reporting Environmental Protection Agency (EPA) data and industry-specific compliance, such as in crude oil processing.

