Electronics Patent Practice

Foley has one of the leading and most sophisticated cross-technology patent counseling and prosecution practices globally, made up of attorneys and business professionals with advanced educations and professional experience in key sectors, including electronics, software, and other high-tech fields.

Foley’s Electronics Practice is a highly diverse group of more than 60 attorneys and business professionals with the experience and backgrounds to assist in matters involving cutting-edge technologies, as well as computer systems and software with diverse programming applications. More than half our team members hold degrees in computer science, electronics and computer engineering, electrical engineering, physics, and aerospace engineering, allowing for an in-depth understanding of industry areas, including:

<table>
<thead>
<tr>
<th>Advanced sensor packages</th>
<th>Communications chipsets</th>
<th>Computer programming and system design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital and analog circuit analysis</td>
<td>Electrical switching technology</td>
<td>Electrolytic apparatus and processes</td>
</tr>
<tr>
<td>Electromechanical control system design</td>
<td>Hardware design</td>
<td>Integrated circuit design</td>
</tr>
<tr>
<td>Laser microscopy</td>
<td>Light Emitting Diode (LED) technology</td>
<td>Liquid crystal displays</td>
</tr>
<tr>
<td>Microprocessor system evaluation</td>
<td>Optical arrays and lens packages</td>
<td>Optical and fiber optic system design</td>
</tr>
<tr>
<td>Photonics</td>
<td>Radio frequency (RF) technologies</td>
<td>Semiconductor fabrication and circuit design</td>
</tr>
<tr>
<td></td>
<td>Wireless and communication technologies</td>
<td></td>
</tr>
</tbody>
</table>

Foley ranks among the Top 10 law firms for electronics and software patents based on the total number of U.S. utility patents that were issued in 2022.*

*Source: Harrity Analytics Top Patent Firms 2022, ranking the firms that obtained the most utility patents for the year
Business Method and Software Patents

Foley’s Business Method & Software Patents Group within our Electronics Practice has been in-step in protecting our clients’ innovative technologies since the State Street case first gave prominence to business method patents in 1998. We have filed and patented cloud products and services as well as new ways of encrypting and securing data. Our related experience includes system and methods for:

- Artificial intelligence and machine learning
- Augmented and virtual reality
- Blockchain
- Data centers and cloud computing
- Database encryption key management
- Encrypted data
- Identity verification
- Internet of Things (IoT)
- Memory and logic system analysis
- Mobile content delivery
- Mobile wallets
- Semantic searching
- SMS/MMS
- Social media platforms
- Software interface and evaluation
- Speech recognition
- Transaction privacy shield

In the last five years, Foley has collectively filed applications for:

- 3,700+ business method patents
- 1,400+ utility patents under TC2100
- 1,600+ utility patents under TC2400
- 4,000+ utility patents under TC2800

Standard Essential Patents

We also leverage significant experience in licensing, litigation, and transactional matters to complement our patent portfolio development experience. One exemplary area of experience is standard essential patents (SEPs), including both procurement and fair, reasonable, and nondiscriminatory (FRAND) licensing and litigation issues. With respect to patent portfolio development, we have collectively filed nearly 5,500 U.S. patent applications over time across CPC patent classifications common to SEPs.

Thought Leadership

Foley attorneys have presented globally and contributed articles to our Innovative Technology Insights blog on the topic of SEPs. Recent posts include:

- What’s the Standard? Strategies for Protecting Standard Essential Patents (02/28/2023)
- Federal Circuit Clarifies Conditions for Standard Essential Patents in LTE Technologies (10/18/2022)