

3D Printing, also known as Additive Manufacturing (AM), is revolutionizing industries by enabling the creation of complex, customized, and high-precision objects using processes that add material layer by layer.

We provide comprehensive patenting services tailored to the dynamic world of 3D printing. As experts in patent law, we understand the unique challenges and opportunities presented by this cutting-edge technology. Our expertise ensures that your innovations are protected, allowing you to focus on pushing the boundaries of what's possible.

From prototyping to production, the applications of 3D printing are vast and varied. However, with rapid advancements come the need to safeguard your intellectual property. Patenting your 3D printing technologies not only protects your inventions but also enhances your competitive edge and market position.

Our attorneys are well versed in the technologies underlying 3D printing such as materials science, electrical engineering, mechanical engineering, robotics, optics, and computer software.

Various forms of 3D Printing include:

- **Fused Deposition Modeling (FDM)**: A popular 3D printing method where thermoplastic material is extruded layer by layer.
- Stereolithography (SLA): A technique that uses a laser to cure liquid resin into solid parts.
- Selective Laser Sintering (SLS): A method that uses a laser to fuse powdered material into solid objects.
- **Digital Light Processing (DLP)**: A technology that uses light to cure resin, similar to SLA but with a different light source. Where SLA uses a laser that traces a layer, DLP uses a projected light source to cure an entire layer at once.
- Electron Beam Melting (EBM): A high-energy process that uses an electron beam to melt and fuse metal powder.

Examples of the Many Applications of 3D Printing

The scope of 3D printing applications is continually expanding, offering numerous opportunities for technological advances. Here are some areas where your innovations can be protected:

- Aerospace Components: Lightweight, high-strength parts for aircraft and spacecraft.
- Automotive Parts: Customized components for vehicles, including prototypes and production parts.
- **Consumer Products**: Personalized items such as jewelry, fashion accessories, and home decor.
- **Construction Materials**: Innovative building materials and techniques for sustainable construction.



- **Medical Devices**: Custom prosthetics, implants, and surgical instruments designed for specific patient needs.
- **Industrial Tools**: Specialized tools and machinery parts that enhance manufacturing processes.
- Construction Materials: Innovative building materials and techniques for sustainable construction

Our attorneys offer a full suite of patenting services to support your 3D printing innovations.

- **Patent Searches**: Comprehensive searches to ensure your invention is unique and patentable.
- **Patent Applications**: Expert drafting and filing of patent applications tailored to your specific technology.
- **Patent Prosecution**: Navigating the complexities of patent approval with strategic responses to examiner queries.
- **Patent Portfolio Management**: Ongoing management of your patents to maximize their value and enforceability.
- **Patent Litigation**: Enforcing patent rights and defending against claims of infringement in federal courts.

Protecting your 3D printing innovations is crucial to maintaining your competitive edge. Ensure your intellectual property is safeguarded by experts who understand the intricacies of 3D printing technology.