Cooley

Dr. Brendan Roach

Patent Agent

broach@cooley.com

+1 202 776 2180

Washington, DC

Patent Counseling and Prosecution
Life Sciences and Healthcare
Artificial Intelligence
Intellectual Property

Brendan's practice focuses on preparation and prosecution of domestic and international patent applications. He also assists in performing intellectual property due diligences and formulating holistic patenting strategies. Brendan's extensive academic training in biomedical engineering and professional experiences in patent law allow him to understand complex technologies in fields ranging from nucleic acid design and regenerative medicine to machine learning and medical devices, thereby providing a unique, interdisciplinary perspective and value to clients.

Prior to Cooley, Brendan worked for several years as a technical specialist/patent agent at Oblon, McClelland, Maier & Neustadt, where his practice focused on preparation and prosecution of domestic and international patent applications in the areas of medical imaging, autonomous vehicles, orthopedics, digital health, ophthalmic lenses, and surgical instrumentation and navigation.

Brendan's doctoral research at Columbia University deployed tissue engineering to investigate the relationship between chemical and mechanical drivers of post-traumatic osteoarthritis and, in response, develop robust cartilage therapies. To this end, he developed expertise in biopolymers (e.g., hydrogels), 3D printing, cellular biology, computer-aided design, and rheology. While at Columbia University, Brendan was also a Fellow at Columbia Technology Ventures, where he performed technical and commercial assessments of early-stage university technologies.

Publications and Speaking Engagements

- **Roach, BL,** et al. Dexamethasone release from within engineered cartilage as a chondroprotective strategy against interleukin-1α. Tissue Engineering, Part A. 2016 April 22(7-8), pp. 621-32.
- Panelist, Artificial Intelligence: IP Issues and Strategies. IAM – Oblon – Lexology Webinar. October 22, 2020. Discussed challenges of drafting, obtaining, and enforcing IP rights in the field of artificial intelligence.
- **Roach, BL**, et al. Fabrication of tissue engineered osteochondral grafts for restoring the articular surface of diarthrodial joints. Methods. 2015 Aug 84, pp. 103-8.

Education

Columbia University PhD, Biomedical Engineering, 2017

Columbia University MS, Biomedical Engineering, 2013

Clemson University BS, Bioengineering, 2011

Admissions & Credentials

US Patent and Trademark Office (USPTO)

Memberships & Affiliations

American Bar Association (ABA)