FISH.

Indranil Sarkar, Ph.D.

Principal
Washington, D.C., Boston
202 638 6504
617 956 5996
sarkar@fr.com

Overview

Indranil Sarkar, Ph.D., focuses his practice on client counseling and strategic patent prosecution in the area of electrical and computer engineering.

Indranil manages patent portfolios of clients ranging from individual inventors to Fortune 50 companies, analyzing innovative technologies, identifying scopes of inventions, reviewing related patent landscapes to formulate protection strategies, and drafting and prosecuting patent applications.

He handles several large multi-national portfolios, and is experienced in formulating unified prosecution strategies across the globe, including expediting prosecution in relevant jurisdictions via the PPH, ASPEC, etc. He also advises clients on effective commercialization/enforcement of intellectual property, including conducting freedom to operate studies to assess competitors' IP portfolios, and formulating strategies to avoid potentially adverse situations. He also has significant experience in post-grant practice, particularly in drafting and prosecuting reissue applications.

Indranil's technical focus is in the areas of wireless technologies, signal and image processing, blockchain, video coding, computer architecture, biometrics, medical devices and software. He has extensive experience in drafting and prosecuting standard-essential patents, particularly ones related to the H.264 and MPEG-4 video coding standards and the 5G wireless standard.

Prior to his legal career, Indranil was a researcher in the area of signal/image processing. His doctoral research was in the area of pulse compression codes and their mismatched filtering for various radar, communications, medical, and image processing applications. He has served as a reviewer for several international journals, including IEEE Transactions on Aerospace and Electronic Systems, Elsevier Signal Processing, and Elsevier Digital Signal Processing. He continues to serve as a reviewer of Ph.D. dissertations for students at his alma mater, Visvesvaraya Technological University.

Recognitions & awards

Capital Pro Bono Honor Roll

District of Columbia Courts 2022, 2024

Patents

U.S. 7,492,312, Multiplicative mismatched filters for optimum range sidelobe suppression in Barker code reception
U.S. 7,843,382, Mismatched filter

Insights

Webinar | October 13, 2021
Strategies and Legal Considerations for Patenting Blockchain Innovations

Webinar | March 25, 2021
The Basics of Patents

News

May 6, 2026
34 Fish & Richardson Attorneys Earn Recognition on 2025 Capital Pro Bono Honor Roll

May 21, 2025
18 Fish & Richardson Attorneys Named to 2024 Capital Pro Bono Honor Roll

July 31, 2023
Twenty-Eight Fish & Richardson Attorneys Recognized by D.C. Courts in the 2022 Capital Pro Bono Honor Roll

February 7, 2020
Fish & Richardson Elevates 14 Attorneys to Principal

January 16, 2019
Fish & Richardson Grows Firm With 14 Associates

Events

January 27, 2025
International Intellectual Property Law Association 2025 Dubai

January 23, 2025
World IP Forum Dubai 2025

December 9, 2024
Practising Law Institute Patenting Blockchain and Distributed Ledger Technologies 2024

January 10, 2024
World Intellectual Property Forum 2024

December 4, 2023
Practising Law Institute Patenting Blockchain and Distributed Ledger Technologies 2023

February 20, 2023
World Intellectual Property Forum 2023

December 5, 2022
Practicing Law Institute's (PLI) Patenting Blockchain and Distributed Ledger Technologies 2022

December 16, 2020
Practising Law Institute - Patenting Blockchain and Distributed Ledger Technologies 2020

Additional insights

Publications

- "Patenting Blockchain Innovations – Avoid Making a Hash of It," *PLI Current: The Journal of PLI Press*, Vol. 5 (March 2021)
- "Area and power efficient mismatched filters based on sidelobe inversion," *Signal Processing, Vol. 89, No. 8, Pages 1550-1556* (August 2009)
- "A New Class of Interlaced Complementary Codes Based on Components with Unity Peak Sidelobes," *Signal Processing, Vol. 88,*

No. 2, Pages 307-314 (February 2008)

- "Multiplicative mismatched filters for sidelobe suppression in Barker codes," *IEEE Transactions in Aerospace and Electronic Systems, Vol. 44, No. 1, Pages 349-359* (January 2008)
- "A Wavelet Based Multi-Resolution Approach to Solve Stereo Correspondence Problem Using Mutual Information," *IEEE Transactions on Systems, Man and Cybernetics, Part B., Vol. 37, No. 4, Pages 1009-1014* (August 2007)
- "The interlaced chirp Z transform," *Signal Processing, Vol. 86, No. 11, Pages 2221-2232* (November 2006)

Speaking engagements

- "Patenting Blockchain and Distributed Ledger Technologies 2021," *Practising Law Institute* (2021)
- "Blockchain Patenting Strategy in Relation to Business Strategy," *Practising Law Institute's Patenting Blockchain and Distributed Ledger Technologies* (December 2020)
- "Prosecution before the USPTO," In*dia's Global Institute of Intellectual Property* (October-December 2020)
- "Area and Power Efficient Mismatched Filters based on Sidelobe Inversion," *IEEE Radar Conference 2008*, Rome, Italy (May 2008)
- "A new class of interlaced complementary codes based on components with unity peak sidelobes," *7th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2007)*, Cairo, Egypt (December 2007)
- "Factored Mismatched Filters for Compound Barker Codes," *IEEE Radar 2007, Waltham, MA, 541-546* (April 2007)
- "Multiplicative Mismatched Filter for Optimum Sidelobe Suppression in Barker Codes," with A. T. Fam, Signal Processing, Sensor Fusion and Target Recognition XV, *SPIE Defense and Security Symposium*, Orlando, Florida (April 2006)
- "The Interlaced Chirp Z Transform," *Proceedings of the 7th IEEE International Conference on Signal Processing and Communications* (SPCOM 2004), *Indian Institute of Science,* Bangalore, India (December 2004)

Services

Post-Grant
Standard Essential Patents
Patent

Industries

Electrical & Computer Technology
Software & Internet
Hardware
Artificial Intelligence
Digital Health
Digital Media & E-Commerce
Telecommunications
5G
Medical Devices

Admissions

U.S. Patent and Trademark Office (2009)
District of Columbia (2020)
Massachusetts (2018)

Languages

English
Bengali
Hindi

Education

J.D. *cum laude*, concentration in Intellectual Property , Suffolk University Law School (2018) Dean's List, Jurisprudence Awards in Contract Law, Corporations, and Professional Responsibility
Ph.D., Electrical Engineering, State University of New York at Buffalo (2007)
M.S., Electrical Engineering, State University of New York at Buffalo (2004)
B.E. with distinction, Electronics and Communication Engineering, Visvesvaraya Technological University (2002)

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