





Joseph P. Valentino, Ph.D. Principal

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Overview

About Joseph

Joseph Valentino, Ph.D., is a principal in the New York office of Fish & Richardson P.C. His practice focuses on patent prosecution and analysis, including substantial experience producing patentability, patent infringement and patent validity opinions. Beyond prosecution, Dr. Valentino also has helped clients with respect to post-grant work, such as *inter partes* review proceedings, *ex parte* reexaminations, and reissue applications.

Dr. Valentino's professional, educational and research background has provided him with a deep understanding of a broad array of technical fields including, among others, semiconductor devices and fabrication, computer software and hardware, quantum computing and quantum electronics device fabrication, organic electronics, image processing, optics, electro-optics (e.g., lasers and light emitting diodes), interferometry, electricity and magnetism, solid-state physics, telecommunications, virtual and augmented reality, medical devices, MEMs, microfluidics, nanotechnology, self-assembly, heat transfer, and business methods/finance.

Focus Areas

Services

- Patent

- Patent Prosecution

Industries

- Chemicals
- Nanotechnology
- Optics
- Semiconductors

Education

J.D. *magna cum laude*, Order of the Coif, Rutgers School of Law - Newark (2014)

Ph.D., Electrical Engineering, Princeton University (2007)

M.A., Electrical Engineering, Princeton University (2003)

B.S. *magna cum laude*, Electrical Engineering, Villanova University (2000)

Insights

Publications

“Medical Diagnostic Tests – Are They Patentable? Don’t Count On It.” *Fish Patent Blog* (August 2016).

“Droplet Detection and Reaction Analysis Using Thin Film Optical Waveguides Integrated in a Surface Microfluidic Chip,” with S.M. Troian and S. Wagner, *Appl. Phys. Lett.*, 86 (18), 184101.

“Microfluidic Actuation By Modulation of Surface Stresses,” with A.A. Darhuber, J.M. Davis, S.M. Troian, S. Wagner, *Appl. Phys. Lett.*, 82 (4), 657 – 659 (2003).

“Thermocapillary Actuation of Droplets on Chemically Patterned Surfaces by Programmable Microheater Arrays,” *J. MEMS*. 12 (6), 873 – 879 (2003).

Speaking Engagements

“We Got a Patent, Now What?” with Sushi Iyer, Microfluidics Congress: USA (July 25, 2017).

“Droplet Detection Via Thermal Sensing in a Surface Microfluidic Chip,” with S.M. Troian and S.

Wagner, 2005 Materials Research Society Spring Meeting, San Francisco (2005).

“Microfluidic Droplet Detection and Analysis Using EVanescent Wave Sensing Integrated Thermocapillary Actuation,” 18th IEEE International Conference on Micro Electro Mechanical Systems, Miami (2005).

“Thermocapillary Actuation of Liquids Using Patterned Microheater Arrays, with A.A. Darhuber, S.M. Troian, and S. Wagner, IEEE Transducer '03, Boston (2003).

“Thermocapillary Actuation of Liquids Using Pattered Microheater Arrays, 2003 Materials Research Society Spring Meeting, San Francisco (2003)

“Thermocapillary Actuation of Liquids for Microfluidic Applications, 2002 American Institute of Chemical Engineers Annual Meeting, Indianapolis (2002).

Memberships & Affiliations

Institute of Electrical and Electronic Engineers

Microfluidics Congress USA Advisory Panel

New York Intellectual Property Law Association

Patent Trial and Appeal Board Bar Association