



## Joseph P. Valentino, Ph.D.

Principal  
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## Overview

Patent attorney Joseph Valentino, Ph.D., focuses his practice on patent prosecution, strategic counseling and analysis, and patent portfolio development and management.

Joseph counsels clients at every stage of their life cycle, helping them evaluate patentability, avoid infringement, and maximize the value of the intellectual property assets. He has substantial experience in producing patentability, patent infringement, and patent validity opinions, and drafting patent applications to withstand competitor challenges. He also represents clients in post-grant proceedings, including *inter partes* review proceedings, *ex parte* reexaminations, and reissue applications.

Joseph's professional, educational, and research backgrounds enable him to understand and advise on a broad array of technical fields including:

- Semiconductor devices and fabrication
- Computer software and hardware
- Quantum computing and quantum electronics device fabrication
- Organic electronics, image processing, optics, and electro-optics (e.g., lasers and light emitting diodes)
- Interferometry
- Electricity and magnetism
- Solid-state physics
- Telecommunications
- Virtual and augmented reality
- Medical devices
- Microelectromechanical systems
- Microfluidics
- Nanotechnology

Joseph earned his Ph.D. in electrical engineering from Princeton University, where later, as a graduate student, he researched thermocapillary flow as a novel actuation technique for microfluidic applications.

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## Professional associations

## Insights

Blog | December 14, 2023

USPTO Launches Semiconductor Technology Pilot Program

Blog | August 27, 2016

Medical Diagnostic Tests — Are They Patentable? Don't Count On It.

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## News

February 4, 2019

Fish & Richardson Elevates 11 Attorneys to Principal

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## Additional insights

### Publications

- "Droplet Detection and Reaction Analysis Using Thin Film Optical Waveguides Integrated in a Surface Microfluidic Chip," with S.M. Troian and S. Wagner, *Phys. Lett*, 86 (18), 184101
- "Microfluidic Actuation By Modulation of Surface Stresses," with A.A. Darhuber, J.M. Davis, S.M. Troian, S. Wagner, *Phys. Lett*, 82 (4), 657 – 659 (2003)
- "Thermocapillary Actuation of Droplets on Chemically Patterned Surfaces by Programmable Microheater Arrays," *MEMS* 12 (6), 873 – 879 (2003)

### Speaking engagements

- "IP Landscape Under the Second Trump Administration," Japan External Trade Organization (JETRO) Intellectual Property Group Seminar (May 8, 2025)
  - "We Got a Patent, Now What?" *Microfluidics Congress: USA* (July 25, 2017)
  - "Droplet Detection Via Thermal Sensing in a Surface Microfluidic Chip," *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, FL (2005)
  - "Thermocapillary Actuation of Liquids Using Patterned Microheater Arrays," *IEEE Transducer '03*, Boston, MA (2003)
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## Services

Post-Grant

Patent

Patent Prosecution

Strategic Patent Counseling & Opinions

Patent Portfolio Management

## Industries

Electrical & Computer Technology

Hardware

Semiconductors  
Consumer Electronics  
Optics  
Artificial Intelligence  
Digital Health  
Financial, Business & FinTech Services  
Telecommunications  
Medical Devices

## Admissions

U.S. Patent and Trademark Office (2008)  
New York (2015)  
New Jersey (2014)

## 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)