



Peter J.W. Melsa

Patent Agent

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Peter J.W. Melsa focuses his practice on prosecuting patents for clients in all areas of electrical & computer technologies.

Practices

- Patent Prosecution

Industries

- Electrical & Computer Technologies

Representative Experience

Mr. Melsa has experience in and has represented clients in technical areas including:

- Virtual machines
- Virtual reality
- Augmented reality
- Virus/malware detection
- Machine learning
- Integrated circuits
- Consumer electronics
- Software
- Domestic appliances
- Internet of Things (IoT)
- Digital imaging
- Digital cameras
- Aircraft lighting systems

- Gantry cranes
- Personal weather stations
- Communication systems
- Medical imaging
- Hard disk drives
- Encryption
- Audience measurement
- Fitness equipment
- Satellite broadcast technologies
- VPNs
- VoIP
- Oilfield exploration
- Signal processing
- Manufacturing process control systems
- Wi-Fi technologies
- Cellular technologies

Background and Credentials

Mr. Melsa obtained his M.S. in electrical and computer engineering from North Carolina State University and his B.S. in electrical engineering from the University of Notre Dame. Mr. Melsa has over a decade of experience working in both private practice, and, as an in-house patent agent. Mr. Melsa worked as a research engineer in the fields of broadband communications and signal processing for nearly two decades. Mr. Melsa holds 24 U.S. patents.

Bar Admissions

- U.S. Patent and Trademark Office

Education

- North Carolina State University (M.S.)
 - Electrical and Computer Engineering
- University of Notre Dame (B.S., *summa cum laude*)
 - Electrical Engineering

Publications and Presentations

- R. Younce, P. Melsa, S. Kapoor, "Echo Cancellation for Asymmetrical Digital Subscriber Lines," *Proceedings of ICC '94*, May 1994.

- P. Melsa, R. Younce, C. Rohrs, "Impulse Response Shortening for Discrete MultiTone Transceivers," *IEEE Transactions on Communications*, pp.1662-1672, Vol. 44, Num 12, December 1996.
- P. Melsa, "Application of Programmable DSPs for DMT and ADSL," Full Day Tutorial at *DSP World Spring Design Conference*, April 1998 and April 1999.
- K. Maclean, M.Corsi, R. Hester, J. Quarfoot, P. Melsa, R.Halbach, C.Kozak, T.Hagan, "A 610-mW Zero-Overhead Class G Full-Rate ADSL CO Line Driver," *Journal of Solid State Circuits*, December 2003.