

ATTORNEY BAR ADMISSIONS

- Commonwealth of Pennsylvania Reg. No. 311640
- United States Patent and Trademark Office, Reg. No. 72458

EDUCATION

- Juris Doctor (JD), Temple University, Philadelphia PA, 2011.
- Master of Business Administration (MBA), Yale University, New Haven CT, 2003.
- Bachelor of Science in Electrical Engineering (BSEE), University of Pennsylvania, Philadelphia PA, 1989.

EXPERIENCE - INTELLECTUAL PROPERTY (IP) PORTFOLIO MANAGEMENT

2003-2007	Director of Technology Development Worldwide Checkpoint Systems, Inc., Thorofare NJ
	• In this period, invented seven U.S. RFID patents. (See page 4 below.) • Provided strategic oversight of technology development. • Served as assistant to chief counsel in rationalizing Checkpoint's 5,000 patents and trademarks. Established internal intellectual property department. • Shepherded RFID technology within Checkpoint. • Monitored external development of EPC RFID standards.
2007-2011	<i>Technical Advisor</i> Caesar, Revise, Bernstein, Cohen & Pokotilow, Ltd., Philadelphia PA
	• In this period, invented two U.S. RFID patents. (See page 4 below.) • Advised attorneys and clients on technical and business aspects of IP portfolio development and management, including invention programs, technical evidence in litigation, technology projects, patent application subject matter, trade secrets, licensing, mergers, and acquisitions. • Negotiated \$17 MM license of RFID technology to Fortune 500 company. Drafted business terms for intellectual property ownership.

EXPERIENCE - LEGAL

2011-2014	<i>Attorney</i> Caesar, Revise, Bernstein, Cohen & Pokotilow, Ltd., Philadelphia PA
	• Advised clients on intellectual property portfolio development and management, including inventions, copyrights, and trade secrets. • Assisted patent prosecution, including drafting of patent applications and office action responses, in fields such as RFID, medical devices, software, and other technologies. • Managed IP estates. Coordinated patent prosecution globally. • Performed litigation discovery. Assisted depositions. • Briefed litigation issues.
2014-2022	<i>Patent Attorney</i> Baker & Hostetler, LLP, Philadelphia PA
	• Developed and prosecuted patents, primarily focusing on cellular telecommunications protocols and exotic semiconductor transistor design. • Investigated infringement re cryptological methods, including design and oversight of black-box experiments where reverse engineering prohibited.
2022 - present	<i>Patent Attorney</i> Ice Miller, LLP, Philadelphia PA
	• Prosecuted and litigated patents for a to variety of electrical, electronic, software, and mechanical technologies, including, e.g., medical devices, AI, blockchain, industrial devices, telecommunications, and Internet security.

EXPERIENCE – OTHER MANAGEMENT

2002	<i>Intern</i> Yale University, New Haven CT
	• Reporting to Chief Financial Officer (CFO) of Yale, provided strategic guidance for resolving union labor disputes in the face of a pending strike • Audited human resources practices in all 400 departments for 4000+ staff.

TECHNOLOGY EXPERIENCE

1988-1989	<i>Student Researcher</i> University of Pennsylvania, Philadelphia PA
	- Participated in DARPA-funded independent research overseen by the UPenn school of medicine into NATO combat cyborg technology. - Designed integrated circuits replicating human analog neural functionality. - See Publication page 5 below.
1990-1993	<i>Engineer</i> Drexelbrook Engineering Company, in Horsham, PA
	Designed industrial sensors for use in hazardous environments leveraging custom and special-purpose integrated circuit technologies.
1993-1996	<i>Engineer</i> Checkpoint Systems, Inc., Thorofare, NJ
	- In this period, invented on five RFID patents. See page 4 below. - Developed radio frequency identification (RFID) readers, tags, systems, and manufacturing capabilities. - Championed new retail supply chain and library security solutions combining printed antenna sticker RFID tags and miniature network edge databases.
1996-1997	<i>Engineer</i> Elcom Technologies and PurePower, Malvern PA
	- Designed powerline communications products exploiting special purpose integrated circuits and protocols for powerline communications. - Coordinated emissions compliance testing. - Developed lossy magnetic material powerline conditioning devices.
1997-1998	<i>Engineer</i> ABC Deco, Malvern, PA
	Researched and resolved Doppler radar issue arising from electronics and bullet-proof materials interference effects for robotic freight rail car sorting systems.

1998-2001	<i>Engineer</i> Goodrich Pump and Engine Control Systems, West Hartford, CT
	- Developed military full-authority digital jet turbine engine controls for NATO arsenal weapons platforms using radiation-hardened integrated circuits. - Resolved multi-party airframe avionics integration challenges.

U.S. PATENTS AS INVENTOR

5,745,036	<i>Electronic article security system for store which uses intelligent security tags and transaction data</i> (Clare) April 28, 1998
5,963,134	<i>Inventory system using articles with RFID tags</i> (Bowers, et al.) October 5, 1999
6,025,780	<i>RFID tags which are virtually activated and/or deactivated and apparatus and methods of using same in an electronic security system</i> (Bowers, et al.) February 15, 2000
6,195,006	<i>Inventory system using articles with RFID tags</i> (Bowers, et al.) February 27, 2001
6,693,539	<i>Inventory system using articles with RFID tags</i> (Bowers, et al.) February 17, 2004
7,042,413	<i>Security tag with three dimensional antenna array made from flat stock</i> (Mazoki, et al.) May 9, 2006
7,138,919	<i>Identification marking and method for applying the identification marking to an item</i> (Clare, et al.) November 21, 2006
7,384,496	<i>Security tag system for fabricating a tag including an integrated surface processing system</i> (Cote, et al.) June 10, 2008
7,436,305	<i>RFID tags for pallets and cartons and system for attaching same</i> (Clare, et al.) October 14, 2008
7,568,108	<i>Access and security control system and method</i> (Monaco, et al.) July 28, 2009
7,709,294	<i>Die attach area cut-on-fly method and apparatus</i> (Clare, et al.) May 4, 2010
7,961,102	<i>RFID tags for pallets and cartons and system for attaching same</i> (Clare, et al.) June 14, 2011
8,786,440	<i>Calibration of beamforming nodes in a configurable monitoring device system</i> (Clare, et al.) July 22, 2014
9,449,202	<i>Localizing tagged assets in a configurable monitoring device system</i> (Clare, et al.) September 20, 2016

PUBLICATION

Mueller, et al., “A Programmable Analog Neural Computer and Simulator,” *Advances in Neural Information Processing Systems*, IEEE NIPS 1988, pp. 712-719.