

MARK N. HORENSTEIN, Ph.D.
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Areas of Expertise

Applied Electromagnetics, Analog and Digital Circuits, Electric Power Systems, Power Electronics, MEMS, Alternative Energy

Education

Massachusetts Institute of Technology Ph.D. Electrical Engineering 1978
(Electric Power Systems Engineering Laboratory)

University of California at Berkeley M.S. Electrical Engineering 1975
(Solid State Optics Laboratory)

Massachusetts Institute of Technology S.B. Electrical Engineering 1973

Employment History

Boston University

Professor, Dept. of Electrical and Computer Engineering	2000 - present
Associate Chair for Undergraduate Programs - ECE Department	2011-2015
Associate Dean for Graduate Programs and Research, Engineering	1999 - 2007
Associate Professor, Dept. of Electrical and Computer Engineering	1985 - 2000
Assistant Professor, Dept. of Electrical and Computer Engineering	1979 - 1985

Spire Corporation

Research Scientist in High-Voltage Pulsed-Power Division	1978 - 1979
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Professional Affiliations

Institute of Electrical and Electronic Engineers (Elevated to IEEE Fellow “for contributions to the modeling and measurements of electrostatics in industrial processes.”)
National Association of Radio and Telecommunications Engineers (Certified Electrostatic Discharge Engineer)
Electrostatics Society of America (Past President and Life Member)
Journal of Electrostatics (Editor Emeritus)

Current Research Activities

Self-Cleaning Solar Panels via Electrostatic Electrodynamic Screen
Ultra-Sensitive Low-Noise Electric Field Mill
High-Voltage Multiplexing Circuit for Large-Array MEMS Mirrors

Teaching Experience

Electromagnetics, Electric Circuits, Electronics, Power Electronics, Engineering Design

Prior Expert Witness & Litigation

Reports Filed and/or Expert Testimony Given:

Magical, Inc. v Advanced Energy Industries et al
Trade Secret Dispute
Matter: Inductors for Energy Transfer
Worked on Behalf of Plaintiff Magical
Expert report
Status: Ongoing
Law Firm: Winthrop & Weinstine

SnapRays LLC v. AllTrade, Enstant, et al.
U.S. International Trade Commission - Inv. No. 337-TA-1124
Matter: Electric Cover Plates
Working on behalf of Complainant SnapRay
Status: Appeared before the ITC. Status pending
Law Firm: Stoel Rives

Lincoln Electric Company v. Harbor Freight Tools
U.S. District Court for Northern District of Ohio, Eastern Division
Case No. 1:17-cv-02329
Matter: Driving Circuits for Welding Machines
Worked on behalf of Defendant Harbor Freight
Status: Settled
Law Firm: Quinn, Emanuel, Urquhart, and Sullivan

Cequent Performance Products v. Hopkins Manufacturing
U.S. District Court for the Eastern District of Michigan
Case 2:13-cv-15293-MAG-PJK
Matter: Electronic Brake Controllers for Vehicle Trailers
Worked on behalf of Defendant Hopkins: Expert declarations, deposition
Status: Settled
Law Firm: Hovey Williams

Hopkins Manufacturing v. Cequent Performance Products
Request for *Inter Partes* Review of US Patents 6,012,780, 6,068,352, and 6,445,993
Matter: Electronic Brake Controllers for Vehicle Trailers
Worked on behalf of Requestor Hopkins: Expert declarations, deposition
Status: Settled
Law Firm: Hovey Williams

RB-TPG San Jose v Tyco Fire Products
U.S. District Court for the Northern District of California, Case No: 5:17-cv-03655
Matter: RF Interference with Wireless Fire Alarm Systems
Worked on behalf of Plaintiff RB-TPG

Status: Jury finding for Defendant
Law Firm: Nystrom, Beckman, Paris

UPI v. Richtek Corp.

U.S. International Trade Commission Inv. No. 337-TA-698
Matter: Integrated Circuits for Power Applications
Worked on behalf of Richtek USA
Expert reports, deposition, testimony at hearing
Status: Decision in favor of Richtek
Law Firm: Alston and Bird

Philips v. Wangs Alliance Corporation

Matter: LED Lighting Circuits
Working on behalf of WAC
Status: Settled
Law Firm: Radulescu, LLP

LED Tech Development v. Samsung Electronics

Request for *Inter Partes* Review of US Patent 6,488,390
Matter: Circuits for maintaining constant flashlight illumination with battery discharge
Worked on Behalf of Requestor Samsung
Expert declarations, claim construction declaration
Law Firm: Fish and Richardson

Superior Communications v. Voltstar Technology

Request for *Inter Partes* Review of U.S. Patent 7,910,833
Matter: Energy -Saving Chargers and Power Adapters
Working on behalf of Requestor Superior
Status: In Progress
Law Firm: Snell & Wilmer L.L.P.

IV v. Ricoh, Inc.

Matter: Scanners and Copiers
Worked on behalf of Plaintiff Intellectual Ventures
Claim construction briefs, expert reports on infringement and validity, deposition
Status: Pre-trial settlement
Law Firm: Tensegrity

IV v Canon Inc.

Matter: Scanners and Copiers
Worked on behalf of Plaintiff Intellectual Ventures
Claim construction briefs, expert reports on infringement and validity, deposition
Status: Pre-trial settlement
Law Firm: Tensegrity

Global Touch v. Microsoft et al

Request for *Inter Partes* Review of Multiple US Patents, (e.g.: US Patent 7,994,726, IPR2015-01147; US Patent 7,498,749, IPR 2015-01148; US Patent 7,329,970, IPR2015-01149)

Matter: Touch-sensitive and proximity switches

Worked on Behalf of Requestor Microsoft

Expert declarations, claim construction declarations, depositions.

Status: Institution on majority of IPR requests

Law Firm: Baker-Hofstetler

Broad Ocean LLC v. Nidec Corp

Request for *Inter Partes* Review of US Patent 7,990,092

Matter: Electric Motors for HVAC Control

Worked on Behalf of Patent Owner Nidec

Expert declaration, deposition.

Status: Pending

Law Firm: Hovey Williams

OS. Security v. BRK Brands

U.S. District Court for the Central District of California

Matter: Circuits for Electronic Safe Locks

Worked on Behalf of Defendant BRK Brands

Expert report.

Status: Settled in favor of BRK Brands

Law Firm: Ice Miller

Shenzhen El Lighting Technology v. Surefire Electrical Corp.

Request for *Inter Partes* Review of US Patent 7,671,279

Matter: "Current-See" Cables for Mobile Device Chargers

Worked on Behalf of Requestor Surefire

Expert declarations, claim construction declaration

Status: Pending

Law Firm: Robins Kaplan

ITRI v. LG Electronics

U.S. District Court of New Jersey

Matter: DVD Read and Write Heads

Worked on behalf of Defendant LG Electronics

Expert reports; claim construction declarations.

Status: Pre-trial settlement

Law Firm: Morgan, Lewis & Bockius

ITRI v. LG Electronics

Request for *Inter Partes* Review of US Patent 7,672,198

Worked on Behalf of Requestor LG Expert declarations

Law Firm: Morgan, Lewis & Bockius

L-3 Communications v. Jaxon Engineering

District Court of Colorado

Matter: Circuits for Producing High-Voltage Pulses for HEMP Testing

Worked on behalf of Defendant Jaxon

Expert report, deposition

Status: Pre-trial settlement

Law Firm: McKenna Long

Re Matter of the Fort Totten Metrorail Cases Arising Out of the Events of June 22, 2009

United States District Court for the District of Columbia

Natl. Transportation Safety Board Accident Number DCA-09-MR-007

Matter: Train-on-Track Detection Circuits

Worked on behalf of Defendant Ansaldo

Expert reports, deposition

Status: Pre-trial settlement

Law Firm: LeClair Ryan (Laurin Mills)

Server Technology, Inc. v. American Power Conversion Corporation,

United States District Court, District Of Nevada

Matter: Intelligent Power Distribution Units

Worked on behalf of Defendant American Power Corporation

Expert reports, deposition, testimony at trial

Status: Mixed finding

Law Firm: Jenner and Block

Clearwater Dolphin Corp. v. Evapco, Inc.

U.S. District Court for the District of Connecticut C3:05cv507 (SRU)

Matter: Electrical Water Treatment Devices

Worked on behalf of Plaintiff Clearwater Dolphin

Status: Summary judgment granted in favor of Evapco

Law Firm: Levy & Grandinetti

Pass & Seymour v. Shanghai Meihao Electric Inc. et al.

U.S. International Trade Commission Inv. No. 337TA615

Matter: Ground Fault Circuit Interrupters (GFCIs)

Worked on behalf of Respondent Shanghai Meihao

Status: Hearing Completed in favor of P&S

Law Firm: Andrews Kurth

Pass & Seymour v. Hubbell Inc. et al.

United States District Court Northern District of New York 5:07Cv00945

Matter: Ground Fault Circuit Interrupters (GFCIs)

Worked on behalf of Defendant Hubbell

Status: Settled

Qimonda AG v. Seagate Technology, et al.

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