



MARK A. BUESE, PH.D.

REGISTERED PATENT AGENT

B.A. *cum laude*
Chemistry
Susquehanna University

Ph.D. Chemistry
University of Florida

AREAS OF PRACTICE

- U.S. and International Patent Prosecution

TECHNOLOGY AREAS

- Chemistry
- Macromolecular Science
- Materials Science
- Pharmaceuticals

PRIOR PROFESSIONAL EXPERIENCE

- Senior Scientist, Clariant LSM (Florida) Inc., 1994-2005
- Assistant Professor, Temple University, Organic and Macromolecular Chemistry 1987-1994
- Staff Scientist, General Electric Corporate Research and Development, 1984-1987
- Charge de Recherches, Institut Charles Sadron, 1982-1983

PROFESSIONAL MEMBERSHIPS & ACTIVITIES

- Registered to Practice before the United States Patent and Trademark Office (USPTO)

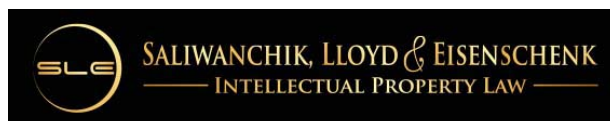
SELECTED PUBLICATIONS

- "Poly(dimethylsiloxane)-*graft*-oligo(hexafluoropropeneoxide) Via Ring-opening Polymerization," *ACS Symposium Series 838 Silicones and Silicone-Modified Materials*, American Chemical Society, Washington, DC 2003: Ch. 26.
- "Living Block Copolymerization of Phenylvinylsulfoxides and Characterization of a Stereogradient Polymer," *Die Makromolekulare Chemie, Macromolecular Symposia, Living Polymerization*, 1995, 95, 287.
- *Silicone Networks Prepared via a Living Percolation Mechanism: Postgel Structure for Networks with a Variety of Junction Functionalities*, *Journal of the American Chemical Society*, 1993: 115, 11475.

- "Size Dependent Polycondensation of α,ω -Di-Hydroxyoligo (dimethylsiloxane)," *Macromolecules* 1992: 25:4821.
- *Stereoelective Anionic Polymerization of Chiral Monomers via Interconverting Ion Pair Epimers*, Recent Advances in Anionic Polymerization, Elsevier, New York 1987: 231.
- "Oligomerization of Vinyl Monomers. 17. Stereoselective Methylation of 1-Lithio-1,3-bis(phenylsulfinyl) butane. Kinetic vs. Thermodynamic Control in the Formation of Diastereomeric Ion Pairs," *Journal of the American Chemical Society*, 1985, 107, 4509.
- Inventor of U.S. Patent No. 6,346,553: "Alkylmethylsiloxane-dimethylsilicone polyalkylene oxide copolymers"
- Inventor of U.S. Patent No. 5,914,420: "Perfluorinated Organo Substituted Cyclosiloxanes and Copolymers Prepared from these Cyclosiloxanes"
- Inventor of U.S. Patent No. 5,347,028: "Highly Functionalized Polycyclosiloxanes and their Polymerization into Thermally Reversible Living Rubbers"

SELECTED PATENTS

- 8,648,247: Solarturf: Solar Energy Harvesting Artificial Turf
- 8,540,976: Poly (Non-Conjugated Diene) Based Sunscreens
- 8,455,661: Catalysts Containing *N*-Heterocyclic Carbenes for Enantioselective Synthesis
- 8,450,449: Multi-Colored Conjugated Polymers with Highly Transmissive Oxidized State
- 8,404,099: Electrolysis of Spent Fuel Pool Water for Hydrogen Generation
- 8,361,437: Multimodal Nanoparticles for Non-Invasive Bio-Imaging



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