



Andrew Campbell Lee

PATENT AGENT

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Andrew Campbell Lee is a patent agent specializing in patent prosecution involving engineering technologies. Andrew has prepared and prosecuted patent applications across many technical fields, including energy systems, mechanical devices, medical devices, manufacturing processes, oil and gas, vehicles, and media guidance.

With years of industry experience, Andrew is familiar with advanced energy systems and processes, including gas turbines, free-piston engines, high-temperature fuel cells, liquid fuel vaporization and mixing, lean premixed combustion, homogeneous charge compression ignition (HCCI), surface-stabilized combustion, pollutant formation and measurement, instrumentation, and sensor systems and auxiliary systems.

Andrew's research experience includes studies on combustion, gasification, electrochemical, and optical processes. Examples include optical measurement of fuel sprays in air and steam, measurement of NO_x formation in jet-stirred reactors, characterization of electrochemical conversion of synthetic fuel gas, an investigation into thermodynamic behavior of novel energy systems, thermogravimetric analysis of solid fuels, and investigation of fuel bed conversion in gasifying environments.

Prior to joining Haley Guiliano LLP in 2017, Andrew worked as a test engineer at EtaGen Inc., testing and instrumenting advanced free-piston power generators. Previously, he has worked as a Technical Advisor at Ropes & Gray LLP and a Patent Agent at Shvarts & Leiz LLP.

Related Practice Areas

- [Patent Preparation and Prosecution](#)

Related Industries

- [Mechanical and Industrial Devices](#)
- [Electronic Hardware](#)
- [Consumer Products](#)
- [Medical Devices](#)

Bar Admissions

- U.S. Patent and Trademark Office

Publications

- Connie de la Vega, Andrew Campbell Lee, "Provisions for Withdrawing from International Human Rights Treaties", 28 ILSA J. Int'l & Comp. L. 315 (2022).

- Alexander B, Lee AC, Mitchell RE, Gür TM. "Carbon-Free Hydrogen Production in a Steam-Carbon Electrochemical Cell" ECS Transactions, 28:26, 67-76 (2010).
- Lee AC, Mitchell RE, Gür TM. "Feasibility of Hydrogen Production in a Steam-Carbon Electrochemical Cell" Solid State Ionics, 192:1, 607-610 (2011).
- Lee AC, Mitchell RE, Gür TM. "Thermodynamic Analysis of Gasification-Driven Direct Carbon Fuel Cells" Journal of Power Sources, 194, 774-785 (2009).
- Lee AC, Mitchell RE, Gür TM. "Modeling of CO₂ Gasification of Carbon for Integration with Solid Oxide Fuel Cells" AIChE Journal, 55(4), 983-992 (2009).
- Li S, Lee AC, Mitchell RE, Gür TM. "Direct Carbon Conversion in a Helium Fluidized Bed Fuel Cell" Solid State Ionics, 179, 1549-1552 (2008).
- Lee AC, Li S, Mitchell RE, Gür TM. "Conversion of Solid Carbonaceous Fuels in a Fluidized Bed Fuel Cell." Electrochemical and Solid State Letters, 11(2) B20-B23 (2008).
- Gür TM, Mitchell RE, Lee AC, Li S "Integrated Dry Gasification Fuel Cell System For Conversion Of Solid Carbonaceous Solids" US Patent No. 8,563,183. Assignee: Direct Carbon Technologies.

Memberships

- Intellectual Property Owners Association (IPO)

Education

- J.D., Expected 2023, University of San Francisco School of Law
- Ph.D., 2010, Mechanical Engineering, Stanford University
- M.S., Mechanical Engineering, 2003, University of Washington, Seattle
- B.S., Mechanical Engineering, 2000, University of California, Berkeley