TECHNOLOGY

An Encapsulated Electrode for EHD Application

OVERVIEW

The Electrohydrodynamic (EHD) technique is a new and promising technique which has proven potential for pumping in the absence of any moving mechanical parts. Also, the EHD effect has demonstrated significantly enhanced heat transfer. The combination of these two capabilities makes the use of the EHD a viable emerging technology for high-performance electronic cooling applications. Due to its lack of moving parts, this technology is highly reliable and does not require maintenance. Low cost and low power consumption are additional benefits. Its applicability to heat transfer enhancement of industrially significant substances such as air, refrigerants, and certain aviation fuels has already been demonstrated.

For additional information please contact the Office of Technology Commercialization, University of Maryland, College Park, MD 20742.
Phone (301) 405-3947. E-mail: otc@umd.edu.

CONTACT INFO

UM Ventures
0134 Lee Building
7809 Regents Drive
College Park, MD 20742
Email: umdtechtransfer@umd.edu
Phone: (301) 405-3947 | Fax: (301) 314-9502

Additional Information

INSTITUTION

University of Maryland, College Park

PATENT STATUS

Patent(s) pending

LICENSE STATUS

Available for exclusive license

CATEGORIES

- Microelectronics

EXTERNAL RESOURCES

- US Patent 7,159,646

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