

Graphene Particulate Additive for Enhanced Refrigeration and Boiling Performance

Disclosure Number

201202798

Technology Summary

HVAC energy efficiency is important because HVAC systems are essential, and their cost of operation is continuous. Effective methods for increasing HVAC efficiency can greatly impact the overall cost of operation. Using an additive in an existing system is ideal for maximizing energy efficiency because it is simple and cheap. An additive that improves the operation of a system at a fundamental level can be translated to different types of HVAC systems, and can be a universal solution for efficiency gains. As part of this effort we developed a standardized characterization method for bench top investigation of thermal efficiency gains of HVAC working fluids due to additives.

Inventor

KLETT, JAMES W

Materials Science and Technology Div

Licensing Contact

DETRANA, ALEXANDER G

UT-Battelle, LLC

Oak Ridge National Laboratory

Rm 139, Bldg 4500N, MS: 6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 576-9682

E-mail: DETRANAAG@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.