



ELECTRIC MOTOR PROVIDING BEARING-FORCE UNLOADING

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The Invention

UW-Madison researchers have developed a hybrid electric machine bearing system that uses both gas and electromagnetic shaft support. The windings of the electric motor are used to reduce the loading of noncontact bearings through the application of an offsetting radial force. For aerodynamic gas bearings, this force may be converted to a torque force after sustaining levitation speeds have been obtained.

Additional Information

For More Information About the Inventors

- [Eric Severson](#)

Tech Fields

- [Engineering : Electric machines](#)

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867