



## Variable Frequency Electrostatic Drive

[View U.S. Patent No. 9,960,719 in PDF format.](#)

**WARF: P170165US01**

Inventors: Daniel Ludois, Baoyun Ge, Aditya Ghule

---

### The Invention

A variable speed drive for an electrostatic motor provides feedback control by conversion of measured current phases provided to the motor into a vector in a rotating rotor framework. This vector is used for evaluating corrective voltages and then reconverted to a non-rotating framework for application to the motor electrodes. Current-source drive circuits provide current stabilized outputs making such sophisticated control tractable.

### Additional Information

#### For More Information About the Inventors

- [Daniel Ludois](#)

#### Tech Fields

- [Engineering : Electric machines](#)

For current licensing status, please contact Michael Carey at [mcarey@warf.org](mailto:mcarey@warf.org) or 608-960-9867