

Directed Flux Motor

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DESCRIPTION

This technology is a directed flux motor for actuating output shaft. The motor has a non-ferromagnetic filler interposed between ferrous metals, where the non-ferromagnetic filler electrically isolates one of the ferrous metals from another ferrous metal. Two stationary members have a stator teeth wound with wire to define an electromagnet and two rotating bodies, which include a rotor teeth, where the flux traveling through magnetic flux paths causes rotation of the rotor teeth to drive planetary gear assemblies. The planetary gear assemblies rotate output shafts.

FEATURES AND BENEFITS

- The motor independently actuates multiple output shafts.
- The motor utilizes the interwoven magnet configuration, thus reducing the overall size of the motor.
- The motor allows for simple changes to modify the torque to speed ratio of the gearing contained within the motor.

APPLICATIONS

- Electric Bikes
- Tidal Turbines
- Electric Vehicles
- Evaporative Air Conditioners

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-15416-1, please contact:

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