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- (71) **Applicant: E-CIRCUIT MOTORS, INC.** [US/US]; One Gateway Center, Suite 359, Newton, Massachusetts 02458 (US).
- (72) **Inventors: SHAW, Steven Robert**; 6880 Rising Eagle Road, Bozeman, Montana 59715 (US). **MILHEIM, George Harder**; 313 Virginia Way, Bozeman, Montana 59718 (US).
- (74) **Agent: ABRAHAMSEN, Robert M.**; Pierce Atwood LLP, 100 Summer Street, Boston, Massachusetts 02110 (US).
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(54) **Title:** STATOR AND ROTOR DESIGN FOR PERIODIC TORQUE REQUIREMENTS

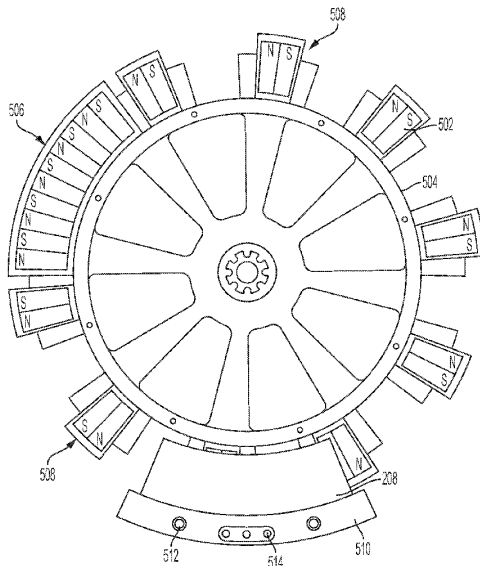


FIG. 5

(57) **Abstract:** Disclosed is a motor or generator comprises a rotor and a stator, wherein the rotor has an axis of rotation and is configured to generate first magnetic flux parallel to the axis of rotation, the stator is configured to generate second magnetic flux parallel to the axis of rotation, and at least one of the rotor or the stator is configured to generate a magnetic flux profile that is non-uniformly distributed about the axis of rotation. Also disclosed is a method that involves arranging one or more magnetic flux producing windings of a stator non-uniformly about an axis of rotation of a rotor of an axial flux motor or generator.

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