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(54) Title: ELECTROMAGNETIC MACHINE WITH INDEPENDENT REMOVABLE COILS, MODULAR PARTS AND SELF SUSTAINED PASSIVE MAGNETIC BEARING

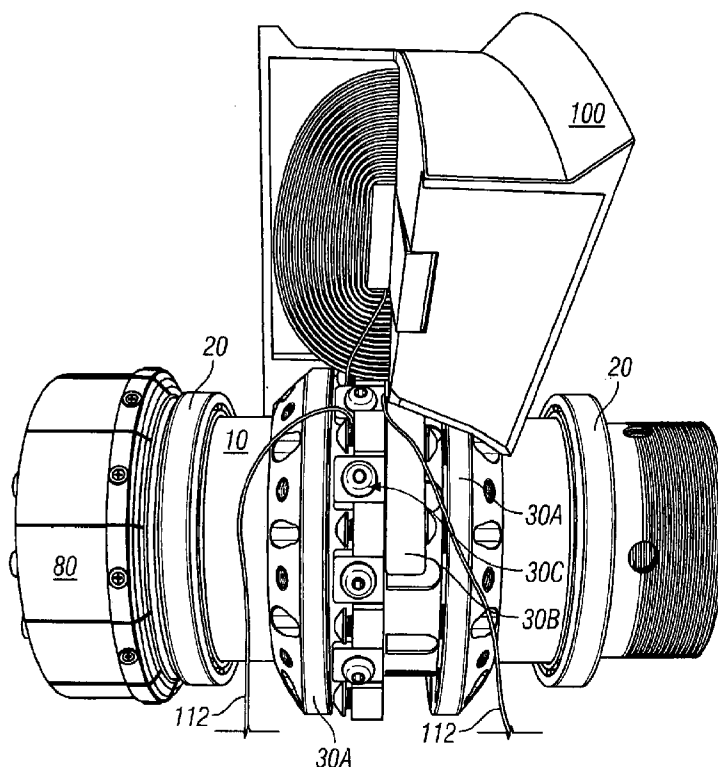


FIG. 10

(57) Abstract: A rotating electromagnetic machine has a tubular axle with mounting rings, a common ring, a coil input ring, and at least one bearing set mounted on it. A fitting is secured at a distal end of the tubular axle, and a commutator is secured at the proximal end. A housing is mounted on the bearing sets through adaptors. Connecting bars extend axially within the axle with lateral rods joined to the connecting bars at their distal ends, the bars commuting between segments of the commutator electromagnetic coils. A plurality of the electromagnetic coils are secured to the coil input ring. The coils are formed of spiral turns of a single flat strip electrically conductive material. A plurality of peripheral and sector magnets are mounted adjacent to the electromagnetic coils with electromagnetic interaction when relative motion occurs between the coils and the magnets.

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