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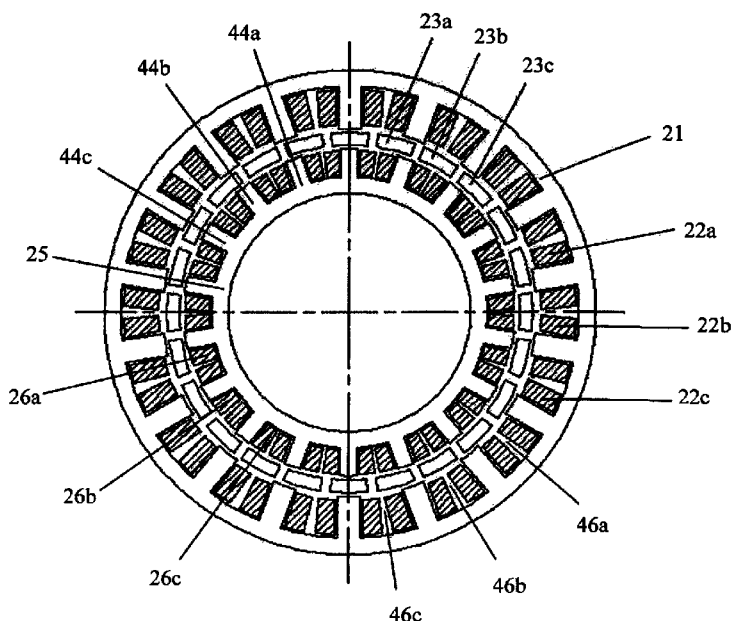
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(57) Abstract: A high torque, low inertia direct drive motor comprises a circular outer stator 21 and a circular inner stator 25 and a ring of magnets 23a, 23b, 23c. The ring of magnets 23a, 23b, 23c is held by a support structure 31, said ring of magnets 23a, 23b, 23c positioned between the circular outer stator 21 and the circular inner stator 25. The circular outer stator 21 and ring of magnets and circular inner stator and ring of magnets are separated by an air gap. The circular outer stator 21 and circular inner stator 25 each have a plurality of teeth with coils wound around the teeth. The teeth of the circular inner stator 44a, 44b, 44c are aligned in the same radial direction as the teeth of the circular outer stator 46a, 46b, 46c.