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(54) Title: VEHICLE MOTOR ASSEMBLIES

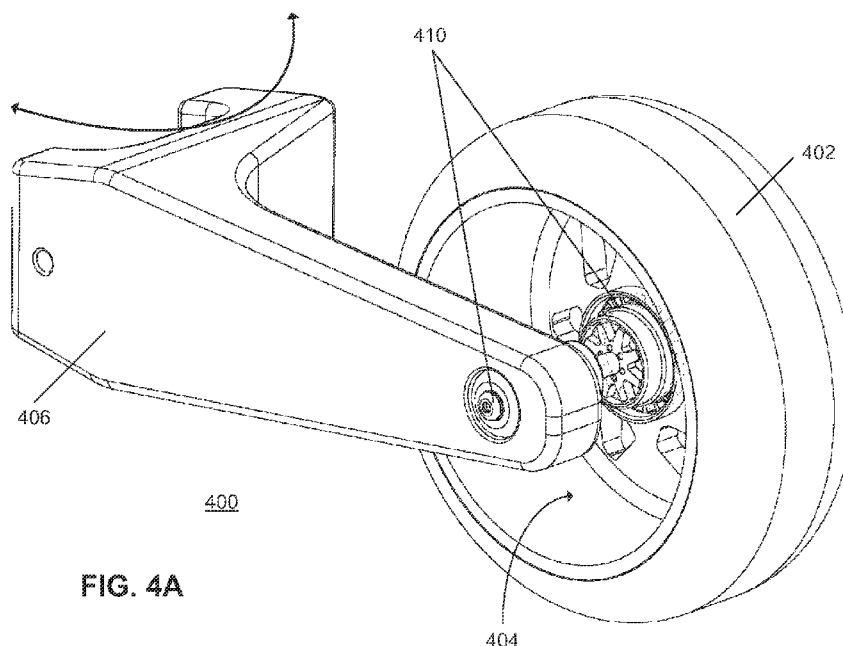


FIG. 4A

(57) Abstract: Embodiments of the invention describe a motor comprising a rotor assembly and a stator assembly to rotatably drive the rotor assembly. Said stator assembly includes a body, a plurality of teeth extending radially from the body, and at least two winding sets, each winding set comprising coils wound on the teeth. The at least two winding sets includes a first set for driving the rotor assembly to a first variable operational range, and a second set for driving the rotor assembly to a second variable operational range different than the first. Said rotor assembly may be used in an electric motor (i.e., said rotor assembly is a flywheel), or may be used in a drive motor.





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