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(54) Title: TORQUE CONVERTER AND SYSTEM USING THE SAME

(57) Abstract: A torque converter includes a flywheel rotating about a first axis, the flywheel including a first body portion, a first plurality of permanent magnets mounted in the first body portion, each of the first plurality of permanent magnets extending along a corresponding radial axis direction with respect to the first axis, and a second plurality of permanent magnets mounted in the first body portion, each of the second plurality of permanent magnets being located between a corresponding adjacent pair of the first plurality of permanent magnets, and a generator disk rotatable about a second axis perpendicular to the first axis, the generator disk including a second body portion, and a third plurality of permanent magnets within the second body portion magnetically coupled to the first and second pluralities of permanent magnets.



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