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(54) **POWER GENERATION FROM VEHICLE WHEEL ROTATION**

(71) Applicant: **Anthony Macaluso**, San Diego, CA (US)

(72) Inventor: **Anthony Macaluso**, San Diego, CA (US)

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(57) **ABSTRACT**

An energy system can store and provide energy to power a vehicle. The energy system can comprise a generator configured to generate an electrical output, a capacitor configured to receive the electrical output from the generator and store the electrical output as a capacitor energy, a battery configured to receive the capacitor energy from the capacitor, a diode electrically positioned between the capacitor and the battery and configured to convey the capacitor energy from the capacitor to the battery, and a roller configured to contact a wheel of the vehicle and to rotate about an axis in response to a rotation of the wheel to cause the generator to generate the electrical output.