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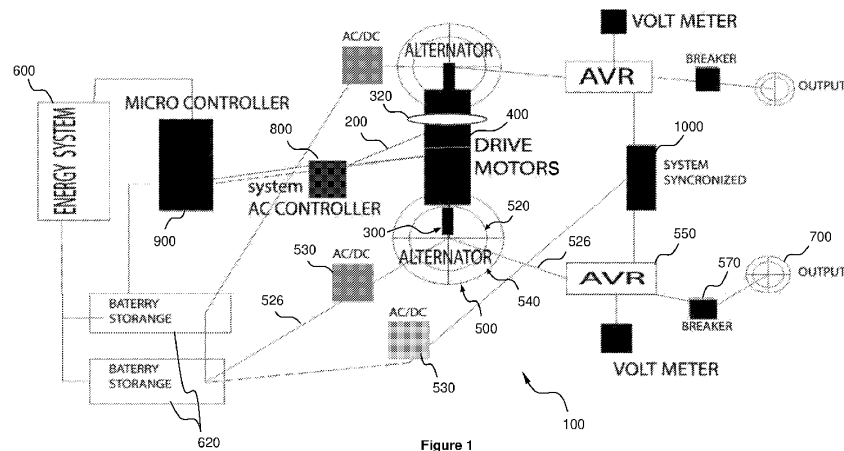
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(54) Title: A SYSTEM FOR CLEAN, RENEWABLE AND SUSTAINABLE POWER GENERATION



(57) Abstract: The present invention relates to a system for clean, renewable and sustainable power generation. Accordingly, the system (100) includes: i) at least one power source (200) operable to static start at least one machine device (400) to rotate a drive shaft (300); ii) at least one synchronous generator (500) having a stator (520) with winding field coils (522), said stator (520) being surrounded by a rotor (540) with an array of magnetic field generating means (542); wherein the drive shaft (300) is a joined shaft, operable to synchronously rotate the rotor (540) of the at least one synchronous generator (500); said drive shaft (300) is equipped with a flywheel (320) having a plurality of arrays or evenly spaced around magnetic field means (322) adapted to be magnetically interaction with energizing coils (340) so as to induce rotation of the flywheel (320) in a single direction to rotate the rotor (540); and wherein the synchronous generator (500) is adapted to convert a rotational speed of the rotor (540) to electric current through cross magnetic field excitation between the stator (520) and the rotor (540), such that said synchronous generator (500) is operable to supply electric power back to the at least one machine device (400) in a closed-loop energy system (600), or to channel the electric power to power output (700) as a power source for other electrical devices.

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