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(54) Title: AN ELECTRIC GENERATOR HAVING PLURAL STATORS

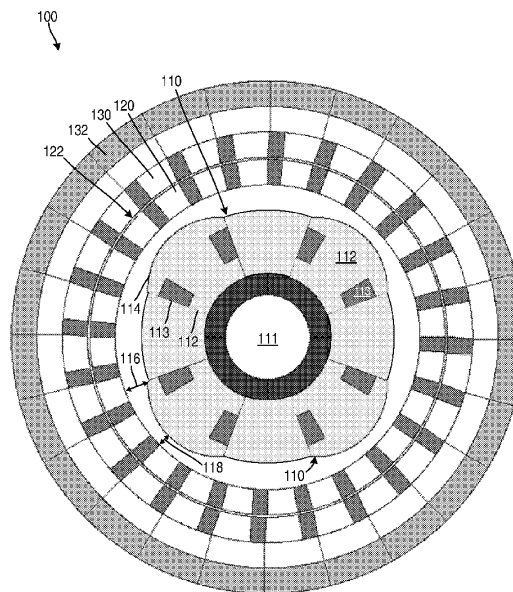


FIG. 1

(57) Abstract: An electric power generator comprises a rotor and a plurality of stators arranged coaxially and concentrically about a central axis. A first stator is provided concentrically around and adjacent to the rotor, the rotor and the first stator being separated by a rotor-stator airgap and a second stator is provided concentrically around and adjacent to the first stator, the first and second stators being separated by a stator-stator airgap. The rotor includes a plurality of magnetic pole structures configured to provide or generate a plurality of magnetic poles and a radially outer surface of each of the magnetic pole structures is curved with an average radius of curvature which is less than an average distance between the outer surface and the central axis. The rotor-stator airgap thus varies circumferentially in distance, with a shortest distance being at a circumferential centre of each of the magnetic pole structures and longest distance being at circumferential ends of each of the magnetic pole structures. The stator-stator airgap is of uniform thickness.

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