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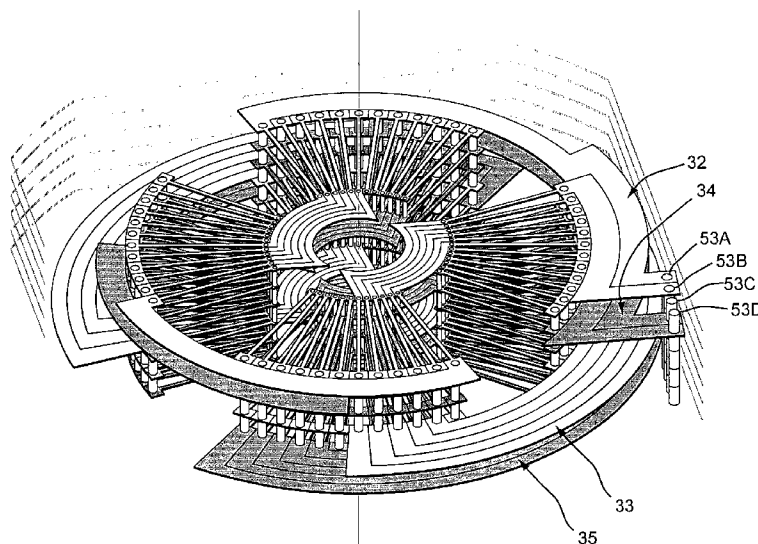
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(54) Title: CONDUCTOR OPTIMIZED AXIAL FIELD ROTARY ENERGY DEVICE



(57) Abstract: The present invention provides an axial rotary energy device which is arranged in a multi-phase electric current configuration. The device includes a rotor having a plurality of permanent magnet poles secured thereto and further includes a stator formed by stacking a plurality of printed circuit board working conductor layers together with a plurality of printed circuit board connecting layers. The stator having at least one working conductor layer for each phase of the electric current and at least one connecting conductor layer associated with one working conducting layer. The working conductor layer and the connecting conductor layer each having radial conductors extending from an inner diameter through-hole to an outer diameter through-hole. A plurality of via conductors are provided for electrically connecting selected ones of the radial connectors of the connecting conductor layer to selected ones of the radial connectors of the working conductor layers through the through-holes.

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