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(54) **Title:** MAGNETIC MATERIAL FILLED PRINTED CIRCUIT BOARDS AND PRINTED CIRCUIT BOARD STATORS

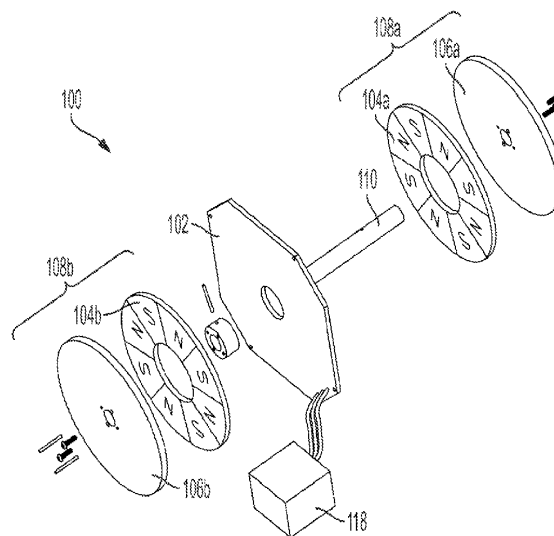


FIG. 1

(57) **Abstract:** A dielectric substrate may support conductive traces that form windings for a least one pole of a planar armature of an axial flux machine. At least a portion of the dielectric substrate, which is adapted to be positioned within an annular active area of the axial flux machine, may include a soft magnetic material. Such a planar armature may be produced, for example, by forming the conductive traces on the dielectric substrate, and filling interstitial gaps between the conductive traces with at least one epoxy material in which the soft magnetic material is embedded.

[Continued on next page]

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