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(54) Title: IMPROVED DESIGNS FOR TURBINE ASSEMBLIES

(57) Abstract: A turbine is described. The turbine includes: (i) a shaft capable of rotation along its longitudinal axis and capable of connecting to an electrical generator, and the shaft having disposed thereon at least one shaft hinge; (ii) a radial arm including a first end having disposed thereon at least one first hinge; and a hinge pin that fits inside a cavity formed when at least one the shaft hinge of the shaft is in an engaged position with at least one first hinge of the radial arm, and in the engaged position the hinge pin capable of connecting the radial arm to the shaft.

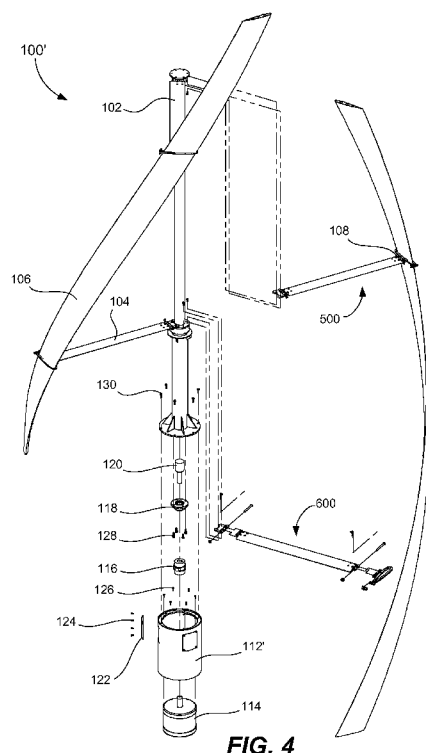


FIG. 4

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