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(54) Title: AN AUGMENTED VERTICAL AXIS WIND TURBINE

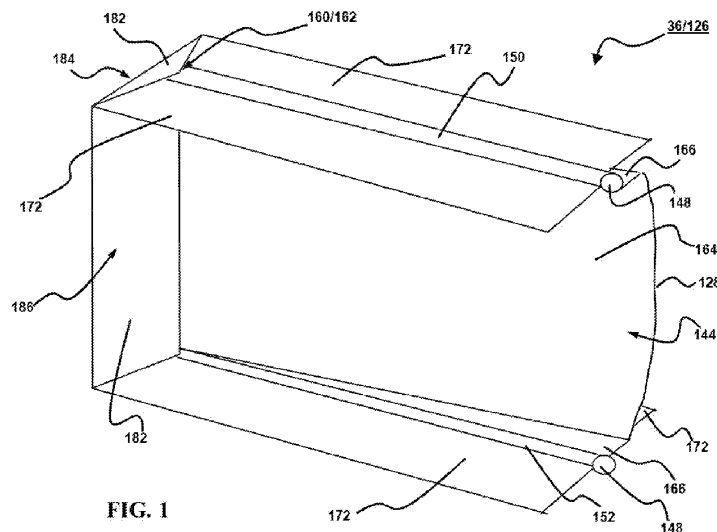


FIG. 1

(57) Abstract: Disclosed herein is an augmented vertical axis wind turbine comprising a support structure, a rotor assembly and an articulated guide vane assembly. The support structure defines a central hollow and has an outer portion and an inner portion forming the periphery of the central hollow. The rotor assembly is movably coupled to and configured to be supported from the inner portion of the support structure to enable rotational displacement thereof along the periphery of the central hollow and about the first axis. The articulated guide vane assembly is coupled to the outer portion of the support structure for circumscribing the support structure, the articulated guide vane assembly comprising a plurality of articulated guide vanes positionable for guiding fluids impinging thereupon towards the rotor assembly to thereby rotationally displace the rotor assembly about the first axis.

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