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(54) Title: TURBINE DEVICE AND SYSTEM FOR HARVESTING TIDAL ENERGY FROM WATER CURRENTS

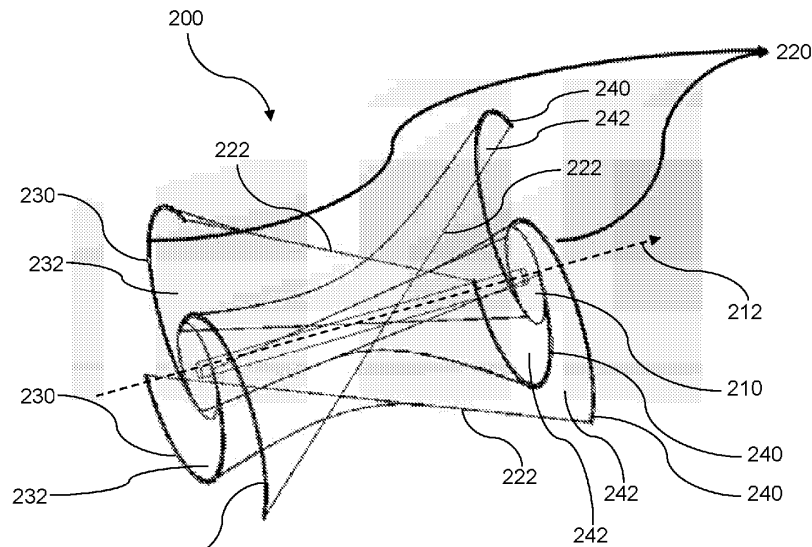


Figure 2A

(57) Abstract: The present disclosure generally relates to a turbine device (200) and system (300) for harvesting tidal energy from water currents. The device (200) has turbine blades (220) that twist around the turbine body (210). Each turbine blade has a first concave area (232) and a second concave area (242) that curve away from the turbine body (210) in opposite rotational directions. Water currents in one direction attack the first concave area 232 to rotate the turbine blade (220) in one direction, and water currents in the opposite direction attack the second concave area 242 to rotate the turbine blade (220) in the opposite direction. Tidal energy from the water currents in both crossflow directions can be harvested from said rotations of the turbine blades (220).

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