

A MODULAR ROTOR ASSEMBLY TO PROPEL A VESSEL BY GENERATING LIFT FORCE

ABSTRACT

A modular rotor assembly (10) to propel a vessel by generating lift force is provided. The modular rotor assembly includes a support unit (20) including an electric motor (30) adapted to rotate. The modular rotor assembly includes a motor plate unit (40) to rotate corresponding to rotation of the electric motor. The modular rotor assembly includes a rotor surface unit (100) to rotate corresponding to the rotation of the motor plate unit. The rotor surface unit is to modify direction of flow of air striking the rotor surface unit during operation of the vessel upon rotating to generate the lift force. The rotor surface unit is to rotate corresponding to the direction of an incoming wind to generate the lift force along the direction of heading of the vessel, thereby propelling the vessel.

FIG. 1