

ABSTRACT OF THE DISCLOSURE**ROTATIONAL DRIVING DEVICE**

A rotational driving device for driving a rotating shaft includes an annular frame, a magnetic pendulum unit, a plurality of electromagnetic units and a plurality of control units. The magnetic pendulum unit is rotatable about a center of the annular frame through which a rotating shaft extends and is connected co-rotatably to the rotating shaft. The electromagnetic units and the control units are alternatively and equiangularly arranged along a circumference of the annular frame (11). The control units are configured to turn on and off the respective electromagnetic units to generate a magnetic force between the magnetic pendulum unit and the respective electromagnetic units for facilitating rotation of the magnetic pendulum unit and allow the magnetic pendulum unit to pass by the respective electromagnetic units, respectively.

(FIG. 1 is suggested for publication)