

Abstract

ROTATION APPARATUS AND POWER GENERATION SYSTEM

A rotation apparatus includes a first disk-shaped rotation body capable of rotating around a first rotation axis, a plurality of first permanent magnets arranged at a peripheral part of the first disk-shaped rotation body so that N-poles and S-poles thereof are distributed alternately, at least one pair of electromagnets arranged at static positions with a predetermined interval, the static positions being near the plurality of first permanent magnets, and a pair of sensor switches for respectively detecting rotational positions of the N-poles and the S-poles of the plurality of first permanent magnets and for electrically energizing the at least one pair of electromagnets. One electromagnet of the pair of electromagnets is energized based on a detected result of the pair of sensor switches to move the first permanent magnet adjacent to the energized electromagnet in a predetermined direction, by an attractive force and a repulsive force between the energized electromagnet and the first permanent magnet so as to rotate the first disk-shaped rotation body.

Figure 1