

ABSTRACT

ELECTROMAGNETIC MOTOR WITH TWO ROTATION SENSES PARTICULARLY INTENDED FOR A TIMEPIECE

This n-phased electromagnetic motor having two rotation senses and in which n is greater than 1, is particularly intended to drive the mechanism of a timepiece movement. It comprises n magnetic circuits, each being magnetically decoupled from n-1 other magnetic circuits. Each magnetic circuit includes two stator poles (4a and 4c, 4b and 4d) each comprising a polar expansion (6a to 6d respectively) partially defining a stator cavity (3) in which a rotor (2) is housed. These two stator poles are diametrically opposite one another relative to the axis (X-X) of the rotor (2). The magnetic separation of the magnetic circuits is assured by means of one or several gap(s) (15) judiciously arranged.

Figure 1