

ABSTRACT ELECTROMECHANICAL TRANSDUCER COMPRISING TWO ROTORS HAVING PERMANENT MAGNETS

Transducer, in particular clockwork driving motor, comprising a stator (2) formed of two stator parts (16 and 26) and three cores (18, 19, 20) connecting respectively three magnetic poles (28, 29, 30), defined by the first stator part (16), to the second stator part (26) used to close the magnetic paths of the transducer. The coils (22 and 24) are used to supply the transducer to drive in rotation respectively the two rotors (4 and 6). The coil (23) is connected to detection means (72) used for detecting the rotation of one or other of the two rotors (4 and 6), and in particular, for detecting zero crossing of the induced voltage (or similarly of the induced current) in the coil (23). Detection of zero crossing of the induced voltage is used to provide input signals to the supply means (70) to control driving of the rotors (4 and 6) in an efficient and reliable manner, in particular in a rapid or continuous operating mode, whether in a forward or backward rotational direction.

Figure 1