

Title (en)
ELECTROMECHANICAL TRANSDUCER

Title (de)
ELEKTROMECHANISCHER WANDLER

Title (fr)
TRANSDUCTEUR ELECTROMECHANIQUE

Publication
EP 1029391 A1 20000823 (EN)

Application
EP 98951600 A 19981103

Priority
• GB 9803298 W 19981103
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Abstract (en)
[origin: WO9923744A1] The electromechanical transducer consists of a stator (1) having a plurality of inner pole pieces (2) that describe a helix and a rotor having magnetic poles that similarly describe a helix. The rotor is constrained, for example by means of a spiral spring, so that the rotor can only move axially, no rotary movement is permitted. Each pole piece (2) of the stator is connected to a radial core (3) about which respective coils (5,6) are wound. Thus, the coils too describe a helix about the axis of the stator (1). The structure of the transducer results in the magnetic circuit having a helical component that contributes to the axial movement of the rotor. The transducer benefits from many of the advantages of rotary motors whilst providing linear movement.

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H02K 41/02; **H02K 33/16**

IPC 8 full level
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Citation (search report)
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