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Abstract

Method for forming an electromagnetic motor with an air bearing

5 A MEMS electromagnetic motor comprising a rotor assembly 210, a pin element 202 including a shaft, and a stator 203, 204. A formation is provided which, upon rotation of the rotor, generates an air bearing. The formation is provided over a large portion (such as at least 50%, at least 75% or even substantially the whole) of the area of the respective opposing surfaces between the rotor assembly and the stator. In particular, the formation extends over a portion of the rotor which, when viewed along the rotational axis of the motor, overlaps with the area occupied by a permanent magnet of the rotor.

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[Fig. 2]