

Title (en)  
MULTI-AIR GAP MAGNETIC ACTUATOR

Title (de)  
MAGNETISCHER BETÄTIGER MIT MEHRFACH LUFTSPALTEN

Title (fr)  
ACTIONNEUR MAGNETIQUE A ENTREFERS MULTIPLES

Publication  
**EP 0752152 A1 19970108 (FR)**

Application  
**EP 95943267 A 19951222**

Priority  
• FR 9501723 W 19951222  
• FR 9415694 A 19941227

Abstract (en)  
[origin: WO9620488A1] A magnetic actuator for adhering a moving piece (36) to a pole piece (38) separated therefrom by an air gap when an electrical circuit (34) is excited, at least one intermediate piece (42) being movably arranged in said air gap between the moving piece and the pole piece, and defining, in the absence of excitation (inoperative state), gaps (e1, e2) between the intermediate piece(s) and the moving piece and the pole piece respectively, these gaps being air gaps for the magnetic flux. Means (44, 64, 74) for limiting the travel of the intermediate piece (42) are provided for holding said intermediate piece in the inoperative position in which this piece (42), the pole piece (38) and the moving piece (36) are fixed and separated by said air gaps. Said means for limiting the travel of the intermediate piece preferably consist of a piece made of non-magnetic material.

IPC 1-7  
**H01F 7/13**; **H01F 7/16**; **H01F 7/14**; **H01H 50/42**

IPC 8 full level  
**H01F 7/13** (2006.01); **H01F 7/14** (2006.01); **H01F 7/16** (2006.01); **H01H 50/42** (2006.01)

CPC (source: EP)  
**H01F 7/13** (2013.01); **H01F 7/14** (2013.01); **H01F 7/1607** (2013.01); **H01H 50/42** (2013.01); **H01F 2007/085** (2013.01)

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Cited by  
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