

Title (en)  
ELECTROMAGNET

Title (de)  
ELEKTROMAGNET

Title (fr)  
ELECTROAIMANT

Publication  
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Application  
**EP 06806135 A 20061010**

Priority  
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Abstract (en)  
[origin: WO2007045375A1] The invention relates to an electromagnet having a cylindrical, hollow magnet body, which has a yoke (4), a pole core (3) having a characteristic-influencing mating armature piece (5) and a housing (2), as well as a cylindrical coil (1) and a cylindrical armature (6) with a guide rod (8) and an armature piston (7), which is arranged such that it can be displaced in relation to the pole. In order to improve the passage of magnetic flux and to reduce hysteresis losses, the invention proposes mounting the armature piston (7) in a bearing tube or a bearing sleeve (9) such that it can be displaced axially, wherein the bearing tube or the bearing sleeve (9) ends at one end within the pole core (3) or within the mating armature piece (5) of the pole core (3) and, at the other end, reaches as far as over the yoke, in particular up to the transverse wall there of the housing (2), and, in the case of the design as a bearing sleeve, has the sleeve base at this end.

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