

Title (en)
ELECTROMAGNET

Title (de)
ELEKTROMAGNET

Title (fr)
ELECTROAIMANT

Publication
EP 1938342 A1 20080702 (DE)

Application
EP 06806135 A 20061010

Priority
• EP 2006009758 W 20061010
• DE 102005049663 A 20051018

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.

IPC 8 full level
H01F 7/06 (2006.01)

CPC (source: EP)
H01F 7/08 (2013.01)

Citation (search report)
See references of WO 2007045375A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005049663 A1 20070426; EP 1938342 A1 20080702; WO 2007045375 A1 20070426

DOCDB simple family (application)
DE 102005049663 A 20051018; EP 06806135 A 20061010; EP 2006009758 W 20061010