

Title (en)
ELECTROMAGNET

Publication
EP 0210650 B1 19900516 (DE)

Application
EP 86110477 A 19860729

Priority
DE 3527423 A 19850731

Abstract (en)
[origin: US4677410A] An electromagnet or solenoid includes an armature in the form of a piston guided for sliding axially in a magnet housing surrounding it. The armature has at least one bearing ring providing the slide bearing of the piston. The bearing ring is held by engagement in at least one groove in the outer surface of the piston. The groove extends axially on the piston and is open to one piston end surface so that the bearing ring and the groove are engaged without great deformation of the bearing ring and the bearing ring can be closed. The bearing ring has an inwardly projecting curvature engaging the groove. The outside edges of the groove are rounded along a length corresponding to the width of the bearing ring forming an edge recess which receives the curvature and holds the bearing ring against axial thrust.

IPC 1-7
H01F 7/16

IPC 8 full level
H01F 7/126 (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)
H01F 7/1607 (2013.01 - EP US); **H01F 2007/085** (2013.01 - EP US)

Cited by
GB2333184A; EP3557594A3

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0210650 A1 19870204; **EP 0210650 B1 19900516**; DE 3527423 A1 19870212; DE 3527423 C2 19891221; DE 3671322 D1 19900621; JP S6242502 A 19870224; US 4677410 A 19870630

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EP 86110477 A 19860729; DE 3527423 A 19850731; DE 3671322 T 19860729; JP 18180286 A 19860731; US 88962086 A 19860728