

Title (en)
Electromagnetic device

Title (de)
Elektromagnetische Anordnung

Title (fr)
Dispositif électromagnétique

Publication
EP 0603629 B1 19970226 (DE)

Application
EP 93119659 A 19931207

Priority
DE 4244247 A 19921224

Abstract (en)
[origin: EP0603629A2] The electromagnetic arrangement has an electric coil (1) whose core (2) is constructed as a split pole. In order to generate a phase shift, one pole (5) of the split pole is surrounded by a shading ring (7). An armature (4) is arranged opposite the split pole. A yoke (3) which closes the magnetic circuit is also provided. A step is provided in the shaded pole (5), specifically in the region between the shading ring (7) and armature (4), in order to increase the retention force between the coil core (2) and armature (4). This leads to an increase in the magnetic flux density and thus in the magnetic force. <IMAGE>

IPC 1-7
H01F 7/12

IPC 8 full level
H01F 7/12 (2006.01); **H01H 50/46** (2006.01)

CPC (source: EP KR US)
H01F 7/12 (2013.01 - KR); **H01F 7/1205** (2013.01 - EP US); **H01F 27/00** (2013.01 - KR); **H01H 50/46** (2013.01 - EP US)

Cited by
CN114649164A; DE10321036A1; DE10321015A1

Designated contracting state (EPC)
AT CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0603629 A2 19940629; EP 0603629 A3 19940713; EP 0603629 B1 19970226; AT E149268 T1 19970315; CA 2112330 A1 19940625; CN 1047254 C 19991208; CN 1090424 A 19940803; DE 4244247 A1 19940707; DE 59305538 D1 19970403; DK 0603629 T3 19970901; ES 2100433 T3 19970616; KR 940016304 A 19940723; MY 110066 A 19971231; PL 176405 B1 19990531; PL 301608 A1 19940627; TW 273624 B 19960401; US 5638041 A 19970610

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