

Title (en)
Small bistable magnet

Title (de)
Bistabiler Kleinmagnet

Title (fr)
Petit aimant bistable

Publication
EP 0794540 A1 19970910 (DE)

Application
EP 97102643 A 19970219

Priority
DE 19608953 A 19960308

Abstract (en)
The bistable small magnet has an armature (4) arranged for axial movement in a coil arrangement. A pole piece is fixedly arranged in or on an end of the coil (2). The armature (4) is pushed to and away from the pole piece when corresponding current passes through the coil (2). The armature (4) has an axially polarised permanent magnet (6) which holds the armature in the attracted position without current. With a corresponding flow of current in the coil the attracting force of the permanent magnet (6) is neutralised and the armature (4) is moved by the force of a spring into its output position or stroke start position. The armature (4) has a weakly magnetic secondary terminal (7) for the permanent magnet (6). At the stroke start position the middle of the permanent magnet (6), viewed in the axial direction, lies in the plane of the start of the coil (2).

Abstract (de)
Für einen bistabilen Kleinmagneten mit einem Tauchanker, in den ein Permanentmagnet eingefügt ist, wird vorgeschlagen, den Anker mit einem weichmagnetischen Nebenschluß für den Permanentmagneten zu versehen und den Permanentmagneten in einer besonderen Lage in Bezug auf die Spule anzuordnen. <IMAGE>

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H01F 7/16

IPC 8 full level
H01F 7/16 (2006.01); **E05B 47/06** (2006.01); **H01F 7/122** (2006.01)

CPC (source: EP)
H01F 7/1615 (2013.01); **E05B 47/0004** (2013.01); **E05B 47/0611** (2013.01); **H01F 7/122** (2013.01); **H01F 2007/1669** (2013.01); **H01H 2051/2218** (2013.01)

Citation (search report)
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• [Y] EP 0406957 A2 19910109 - PHILIPS CORP [US]
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