

Title (en)
ELECTROMAGNET WITH A MAGNET ARMATURE

Title (de)
ELEKTROMAGNET MIT MAGNETANKER

Title (fr)
ELECTROAIMANT DOTE D'UNE ARMATURE BATTANTE

Publication
EP 1348221 A1 20031001 (DE)

Application
EP 01990347 A 20011220

Priority
• DE 0104833 W 20011220
• DE 10065016 A 20001223

Abstract (en)
[origin: US2003160671A1] In an electromagnet having an armature, in particular for use in a solenoid valve, which includes a solenoid coil (1), a magnet core (2) which passes through the solenoid coil (1) and has at least one pole face (22), an armature (3) which is supported perpendicularly to the at least one pole face (22) of the magnet core (2) so as to be able to slide and has an armature plate (31) facing the pole face (22) and an armature pin (32) that projects from the armature plate (31) and is supported so as to be able to slide and rotate, and adjusting means which are formed on the electromagnet and/or on the armature and adjust the armature plate (31) to a predetermined rotational position, it is proposed that at least one first cutout (33) which is radially offset from the armature pin (32) and formed in the armature plate (31), and at least one second cutout (27) which is situated in the at least one pole face (22) of the magnet core (2) and assigned to the first cutout (33), be provided as adjusting means; the second cutout magnetically interacting with the first cutout (33) in response to the solenoid coil (1) being acted upon by a current, such that the armature plate (31) is adjusted to the predetermined rotational position.

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IPC 8 full level
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