

Title (en)
ELECTROMAGNET

Title (de)
ELEKTROMAGNET

Title (fr)
ÉLECTRO-AIMANT

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Application
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Abstract (en)
[origin: WO2011144272A1] The invention relates to an electromagnet, in particular a switching magnet, having a field winding (11) which is located on a coil former (7), and having a pole piece (23) which forms a part of the magnetic return path, wherein a pole core (17) and an axially movable magnet piston (19) are provided within the coil former (7), the pole piece (23) forms an aperture opening (25) for the magnet piston (19) on the area opposite the pole core (17), and said magnet piston (19) is borne for its movement in its guide in the pole core (17), characterized in that the pole piece (23) has a flange part (27) which at least partially engages over the coil former (7) at its axial end, and has a bush part (29) which extends axially therefrom and, within the coil former (7), forms a hollow cylinder which engages over a longitudinal section of the magnet piston (19) between the inner wall of which hollow cylinder and the circumference of the magnet piston (19) a parasitic air gap (30) is formed.

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