

Title (en)  
ELECTROMAGNETIC ACTUATING APPARATUS

Title (de)  
ELEKTROMAGNETISCHE STELLVORRICHTUNG

Title (fr)  
DISPOSITIF DE RÉGLAGE ÉLECTROMAGNÉTIQUE

Publication  
**EP 2050107 A1 20090422 (DE)**

Application  
**EP 07786506 A 20070802**

Priority  
• EP 2007006827 W 20070802  
• DE 202006011905 U 20060803

Abstract (en)  
[origin: US8203405B2] An electromagnetic actuating apparatus with an elongate actuating element (3), which forms an engagement region (11) at the end and is capable of moving owing to the force of a coil device provided in stationary fashion, and sections of the actuating element have permanent magnets (4), which are designed to interact with a stationary core region (7), wherein a stationary bearing element (8) acting as a yoke is provided axially opposite the core region (7) for the actuating element (3), at least sections of which are in the form of a piston, wherein the actuating element (3) has two sections (10, 20; 3a, 3b), wherein a first section (19, 3a), which is arranged in the region of the permanent magnets (4), is optimized in terms of the magnetic conductivity and a second section (20, 3b), which is arranged in the engagement region, is optimized in terms of wear.

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

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