

Title (en)

Fluid-pressure actuator with a magnetic field sensor

Title (de)

Druckmittelbetätigte Zylinder-Kolben-Anordnung mit einem Magnetfeldsensor

Title (fr)

Vérin d'actionnement à fluide à capteur de champs magnétique

Publication

EP 0721067 A2 19960710 (DE)

Application

EP 95120518 A 19951223

Priority

DE 19500137 A 19950104

Abstract (en)

The piston-cylinder device has an annular permanent magnet (3) attached to the piston (11), cooperating with a magnetic field sensor (2) within the cylinder (10), for detecting the piston position. The permanent magnet is magnetised in the axial direction of the piston-cylinder device and provided by ferromagnetic discs (32,33) for guiding the magnetic flux. The piston has an open groove (31) receiving the permanent magnet, which has an outer dia. only slightly less than the inner dia. of the cylinder, which has a recess receiving a sleeve (21) of a non-magnetic material, incorporating the magnetic field sensor.

Abstract (de)

Der Kolben (11) der Zylinder-Kolben-Anordnung (1) trägt in einer Nut (31) einen ringförmigen Permanentmagneten (3), der in Richtung der Achse (39) magnetisiert ist. Befindet sich der Permanentmagnet (3) im Bereich der Ausnehmung (20), gibt der Magnetfeldsensor (2) ein Wegsignal ab.
<IMAGE>

IPC 1-7

F15B 15/28

IPC 8 full level

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CPC (source: EP)

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Cited by

CN109312856A; EP1445494A3; CN102943784A; EP2878831A1; DE102005030722A1; CN109162996A; US8365651B2; WO2017211519A1; WO2004081388A1

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