Title (en)

Magnetic protection for an electromagnetic valve actuator

Title (de)

Magnetische Abschirmung eines Aktors zur elektromagnetischen Ventilsteuerung

Title (fr)

Protection magnétique pour actionneur de soupape électromagnétique

Publication

EP 0971100 A1 20000112 (DE)

Application

EP 99112531 A 19990701

Priority

- DE 19830233 A 19980707
- DE 19843075 A 19980919

Abstract (en)

The actuator has an opening magnet (OM) and a closing magnet (SM) with an armature plate (AP) oscillating between them, and an armature plate position measurement arrangement with a magnetic field sensor (MS) and a magnetic field generator (MG). The magnetic field generator and the magnetic field sensor are enclosed by a magnetic screen (MA) made of a weakly magnetic material.

Abstract (de)

Die Erfindung betrifft einen Aktor zur elektromagnetischen Ventilsteuerung mit einer einen Magnetfeldsensor und einen Magnetfeldgeber aufweisenden Vorrichtung zur Positionsbestimmung der Ankerplatte, wobei der Magnetfeldsensor und der Magnetfeldgeber von einer magnetischen Abschirmung umgeben sind. <IMAGE>

IPC 1-7

F01L 9/04

IPC 8 full level

F01L 9/20 (2021.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); F01L 2009/2136 (2021.01 - EP US); F01L 2009/2169 (2021.01 - EP US); Y10T 137/8242 (2015.04 - EP US)

Citation (search report)

- [XA] US 5769043 A 19980623 - NITKIEWICZ JAMES A [US]
- [AP] EP 0867602 A1 19980930 - FUJI HEAVY IND LTD [JP]

Cited by

AT512065A1; FR2871543A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0971100 A1 20000112; **EP 0971100 B1 20030903**; ES 2205648 T3 20040501; US 6213147 B1 20010410

DOCDB simple family (application)

EP 99112531 A 19990701; ES 99112531 T 19990701; US 34875999 A 19990707