

Title (en)

ELECTROMAGNETIC ACTUATING VALVE AND METHOD FOR PRODUCING A MAGNETIC CASING FOR A VALVE

Title (de)

ELEKTROMAGNETISCH BETÄTIGBARES VENTIL UND VERFAHREN ZUR HERSTELLUNG EINES MAGNETMANTELS FÜR EIN VENTIL

Title (fr)

VANNE A COMMANDE ELECTROMAGNETIQUE ET PROCEDE DE FABRICATION D'UNE ENVELOPPE MAGNETIQUE POUR VANNE

Publication

EP 1068441 B1 20040901 (DE)

Application

EP 99960808 A 19991022

Priority

- DE 9903391 W 19991022
- DE 19860631 A 19981229

Abstract (en)

[origin: DE19860631A1] The invention relates to an electromagnetic actuating valve with an electromagnetic circuit having at least one magnetic coil (1), a core serving as inner pole, an armature and a magnetic casing (60) that surrounds the magnetic coil (1) at least partially. The magnetic casing (60) is manufactured from a sheet metal blank by rolling or bending. The magnetic casing (60) has a central area (630) to which fixing areas (640, 650) extending in axial direction on both sides are attached, said areas having a smaller outer diameter than the area of the casing (630). The inventive valve is particularly suitable for fuel injection valves in fuel injection systems for mixture-compressing spark ignition internal combustion engines.

IPC 1-7

F02M 51/06; **F02M 61/16**

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/16** (2006.01); **F16K 31/06** (2006.01); **H01F 7/06** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP KR US)

F02M 51/0614 (2013.01 - EP KR US); **F02M 61/168** (2013.01 - EP KR US); **Y10T 29/49002** (2015.01 - EP US); **Y10T 29/4902** (2015.01 - EP US); **Y10T 29/49412** (2015.01 - EP US); **Y10T 83/0476** (2015.04 - EP US); **Y10T 83/0505** (2015.04 - EP US); **Y10T 83/051** (2015.04 - EP US); **Y10T 83/0577** (2015.04 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19860631 A1 20000706; BR 9908376 A 20001031; CN 1115478 C 20030723; CN 1292064 A 20010418; DE 59910397 D1 20041007; EP 1068441 A1 20010117; EP 1068441 B1 20040901; JP 2002533633 A 20021008; KR 20010041413 A 20010515; RU 2239087 C2 20041027; US 2002040524 A1 20020411; US 6341759 B1 20020129; US 6745457 B2 20040608; WO 0039448 A1 20000706

DOCDB simple family (application)

DE 19860631 A 19981229; BR 9908376 A 19991022; CN 99803386 A 19991022; DE 59910397 T 19991022; DE 9903391 W 19991022; EP 99960808 A 19991022; JP 2000591320 A 19991022; KR 20007009547 A 20000828; RU 2000124948 A 19991022; US 1312501 A 20011207; US 62312100 A 20001115