

Title (en)

Magnet assembly and injection valve with same

Title (de)

Magnetbaugruppe sowie Einspritzventil mit einer Magnetbaugruppe

Title (fr)

Composant magnétique et soupape d'injection dotée d'un composant magnétique

Publication

EP 2392815 B1 20141112 (DE)

Application

EP 11166202 A 20110516

Priority

DE 102010029595 A 20100601

Abstract (en)

[origin: EP2392815A1] The component has a magnetic core (1) provided for direct or indirect control of an injection valve member, and a recess (2) arranged for receiving the magnetic core wound with a solenoid coil (3). A lifting-motion armature (4) interacts with the coil and an annular shaped permanent magnet (5). The magnet integrates into an outer pole (6), inner pole (7) or bottom (8) of the magnetic core or into the armature and produces the magnetic flux that energizes the coil and amplifies or attenuates magnetic force acting on the armature.

IPC 8 full level

F02M 51/06 (2006.01)

CPC (source: EP)

F02M 51/0689 (2013.01)

Cited by

JP2018084226A; US10920728B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2392815 A1 20111207; EP 2392815 B1 20141112; CN 102360707 A 20120222; DE 102010029595 A1 20111201

DOCDB simple family (application)

EP 11166202 A 20110516; CN 201110152119 A 20110601; DE 102010029595 A 20100601