

Title (en)
Solenoid valve

Title (de)
Magnetventil

Title (fr)
Electrovanne

Publication
EP 1306546 A3 20040428 (DE)

Application
EP 02022595 A 20021009

Priority
DE 10152172 A 20011023

Abstract (en)
[origin: EP1306546A2] The magnetic valve has a magnetic component group (22) and an injector body (23) coupled together via a fixing ring (24) with 2 rolled edges (24a,24b) cooperating with corresponding grooves (23a) and/or projections (22b) provided by the injector body and the magnetic component group. The fixing ring can be made of an elastic material, e.g. a rust-reistant steel alloy.

IPC 1-7
F02M 61/16; **F02M 47/02**

IPC 8 full level
F02M 47/02 (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 2200/8053** (2013.01 - EP US)

Citation (search report)
• [DA] EP 0690223 A2 19960103 - ELASIS SISTEMA RICERCA FIAT [IT]
• [DA] DE 19650865 A1 19980610 - BOSCH GMBH ROBERT [DE]
• [A] US 5188336 A 19930223 - GRANER JUERGEN [DE], et al
• [A] US 6186472 B1 20010213 - REITER FERDINAND [DE]

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DE102012208075A1; US10174729B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1306546 A2 20030502; **EP 1306546 A3 20040428**; **EP 1306546 B1 20080305**; DE 10152172 A1 20030430; DE 50211821 D1 20080417; JP 2003148298 A 20030521; JP 3793494 B2 20060705; US 2003094516 A1 20030522; US 6827332 B2 20041207

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EP 02022595 A 20021009; DE 10152172 A 20011023; DE 50211821 T 20021009; JP 2002307470 A 20021022; US 27904602 A 20021022