

Title (en)
Fuel filter

Title (de)
Kraftstofffilter

Title (fr)
Filtre à carburant

Publication
EP 1298312 A3 20040811 (DE)

Application
EP 02020980 A 20020920

Priority
DE 10147416 A 20010926

Abstract (en)
[origin: EP1298312A2] Fuel filter comprises an inlet for contaminated fuel, an outlet for clean fuel, a filter element, a pressure-regulating valve, and an outlet for fuel flowing through the pressure-regulating valve. The pressure-regulating valve is a module consisting of a bushing (23) inserted with a sealing element in an opening. The bushing has an opening (24) closed with a spring-loaded ball (27). The spring is a leaf spring (25) fixed directly on the bushing and the ball is arranged between the spring arm of the leaf spring and the bushing. Preferred Features: The pressure-regulating valve is arranged on an end plate of the filter element. The bushing is inserted with a sealing element in an opening in the end plate.

IPC 1-7
F02M 37/22

IPC 8 full level
F02M 37/46 (2019.01)

CPC (source: EP US)
F02M 37/46 (2018.12 - EP US)

Citation (search report)

- [Y] DE 19754243 A1 19990610 - BOSCH GMBH ROBERT [DE]
- [Y] US 5232273 A 19930803 - ECKSTEIN URSULA [DE], et al
- [PA] EP 1239145 A2 20020911 - BOSCH GMBH ROBERT [DE]
- [A] US 5830348 A 19981103 - VANNOY CHRISTOPHER T [US], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 0133, no. 00 (M - 848) 11 July 1989 (1989-07-11)

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DE202005015679U1

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 1298312 A2 20030402; EP 1298312 A3 20040811; EP 1298312 B1 20060726; AT E334308 T1 20060815; DE 50207615 D1 20060907; ES 2267912 T3 20070316

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EP 02020980 A 20020920; AT 02020980 T 20020920; DE 50207615 T 20020920; ES 02020980 T 20020920