

Title (en)

Valve assembly for an injection valve and injection valve

Title (de)

Ventilanordnung für ein Kraftstoffeinspritzventil und Kraftstoffeinspritzventil

Title (fr)

Assemblage de soupape pour un injecteur et l'injecteur

Publication

EP 1808596 A1 20070718 (EN)

Application

EP 06000640 A 20060112

Priority

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Abstract (en)

Valve assembly (14) of an injection valve (10), the valve assembly (14) comprising a valve body (20) including a central longitudinal axis (A), the valve body (20) comprising a cavity (24) with a fluid outlet portion (28), a valve needle (22) axially movable in the cavity (24) and a sealing element (42). The sealing element (42) has an inner fixing element (44) and an outer fixing element (48), wherein the inner fixing element (44) is at least partially arranged inside the outer fixing element (48), the outer fixing element (48) having an outer surface (50) coupled with the valve body (20) and the inner fixing element (44) having a cavity (45) forming an inner surface (46) coupled with the valve needle (22), and the inner fixing element (44) and the outer fixing element (48) are sealingly coupled by a layer (52) of an elastic material.

IPC 8 full level

F02M 55/00 (2006.01); **F02M 61/08** (2006.01); **F02M 61/12** (2006.01); **F02M 61/16** (2006.01); **F16K 41/10** (2006.01)

CPC (source: EP)

F02M 55/004 (2013.01); **F02M 61/08** (2013.01); **F02M 61/12** (2013.01); **F02M 61/166** (2013.01); **F02M 2200/707** (2013.01)

Citation (applicant)

- DE 10260289 A1 20040708 - SIEMENS AG [DE]
- EP 1445478 A1 20040811 - SIEMENS VDO AUTOMOTIVE SPA [IT]

Citation (search report)

- [A] DE 10260289 A1 20040708 - SIEMENS AG [DE]
- [A] EP 1445478 A1 20040811 - SIEMENS VDO AUTOMOTIVE SPA [IT]
- [A] EP 1445480 A1 20040811 - SIEMENS VDO AUTOMOTIVE SPA [IT]
- [A] EP 1391609 A1 20040225 - SIEMENS VDO AUTOMOTIVE SPA [IT]
- [A] GB 2071762 A 19810923 - DAIMLER BENZ AG
- [A] DE 2346767 A1 19740718 - CASALS CARDONA IND S A

Cited by

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Designated contracting state (EPC)

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