

Title (en)  
Valve assembly for an injection valve and injection valve

Title (de)  
Ventilanordnung für ein Einspritzventil und Einspritzventil

Title (fr)  
Ensemble de soupape pour soupape d'injection et soupape d'injection

Publication  
**EP 2653711 A1 20131023 (EN)**

Application  
**EP 12164524 A 20120418**

Priority  
EP 12164524 A 20120418

Abstract (en)  
Valve assembly (80) of an injection valve (82), the valve assembly (80) comprising a valve body (4) including a central longitudinal axis (L), the valve body (4) comprising a cavity (8) forming an inner surface (18) of the valve body (4), the cavity (8) having a fluid inlet portion (42), and a fluid outlet portion (44), a valve needle (10) axially movable in the cavity (8), the valve needle (10) preventing a fluid flow through the fluid outlet portion (44) in a closing position and releasing the fluid flow through the fluid outlet portion (44) in further positions, and a filter element (46) being arranged in the cavity (8) axially upstream the fluid outlet portion (44) and radially between the inner surface (18) of the valve body (4) and an outer surface (12) of the valve needle (10), the filter element (46) being designed to filter the fluid. At least one sealing element (50, 52) is arranged radially between the filter element (46) and the inner surface (18) of the valve body (4) and/or radially between the filter element (46) and the outer surface (12) of the valve needle (10).

IPC 8 full level  
**F02M 61/16** (2006.01)

CPC (source: EP)  
**F02M 61/165** (2013.01); **F02M 2200/27** (2013.01)

Citation (search report)

- [X] WO 9318299 A1 19930916 - SIEMENS AUTOMOTIVE LP [US]
- [I] EP 2060777 A1 20090520 - DELPHI TECH INC [US]
- [I] US 2011006136 A1 20110113 - FLYNN VICKI A [US], et al
- [A] EP 2354531 A1 20110810 - CONTINENTAL AUTOMOTIVE GMBH [DE]

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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