

Title (en)
Valve assembly for an injection valve

Title (de)
Einspritzventilanordnung

Title (fr)
Soupape d'un injecteur

Publication
EP 1793120 A1 20070606 (EN)

Application
EP 05026380 A 20051202

Priority
EP 05026380 A 20051202

Abstract (en)
Valve assembly (14) for an injection valve (10) which comprises a valve body (20) including a central longitudinal axis (L) and comprises a cavity (24) with a fluid outlet portion (28). The valve assembly comprises a valve needle (22) axially movable in the cavity (24), the valve needle (22) has a front surface (37) turned away from the fluid outlet portion (28) and a recess (38) which is arranged in direction of the central longitudinal axis (L) from the front surface (37) over a portion of the axial length of the valve needle (22). The valve needle (22) is preventing a fluid flow through the fluid outlet portion (28) in a closing position and is releasing the fluid flow through the fluid outlet portion (28) in further positions. The valve needle has a surface (23) facing the fluid outlet portion (28), one component of the normal of the surface (23) extending in parallel to the central longitudinal axis (L).

IPC 8 full level
F02M 61/04 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 61/042 (2013.01); **F02M 2200/304** (2013.01)

Citation (search report)
• [A] US 2005072865 A1 20050407 - GOTO MORIYASU [JP], et al
• [A] EP 1416152 A1 20040506 - BOSCH GMBH ROBERT [DE]
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Cited by
CN105849403A; EP2067983A1; EP2067983B1

Designated contracting state (EPC)
DE FR IT

Designated extension state (EPC)
AL BA HR MK YU

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