

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1430217 A1 20040623 (DE)**

Application  
**EP 02754260 A 20020621**

Priority  
• DE 0202298 W 20020621  
• DE 10143500 A 20010905

Abstract (en)  
[origin: DE10143500A1] The device has a valve needle that interacts with a valve seat surface to form a seal and an armature (20) connected to the needle and acted on by a restoring spring in the closing direction. The armature has a peripheral guide collar guided by a counter surface. The collar (34) has a flat deviating from the circular outer contour of the armature so that at least one aperture (40) is formed between the collar and the counter surface (41).

IPC 1-7  
**F02M 51/06**

IPC 8 full level  
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**F02M 61/16** (2013.01 - EP KR US); **F02M 61/165** (2013.01 - EP US); **F02M 2200/306** (2013.01 - EP KR US);  
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