

Title (en)  
Valve for injecting fuel

Title (de)  
Ventil zum Einspritzen von Brennstoff

Title (fr)  
Soupape pour injecter du carburant

Publication  
**EP 1655482 B1 20071010 (DE)**

Application  
**EP 05109372 A 20051010**

Priority  
DE 102004053351 A 20041104

Abstract (en)  
[origin: EP1655482A1] The valve has a valve body (4) along with a recess (5) which lies along the direction of flow of the fuel through the conical or spherical replaceable edge (11) formed along the valve seat. The valve needle (6) is movable along the axial direction of the recess along the closing body (14) which is mounted on the valve seat preventing release of fuel and which has first edge (20) and second edge (21). The first clearance which is formed between the replaceable edge and the valve seat (18) is smaller than the second edge which is formed between the first edge and the valve seat. The third clearance is formed between the second edge and the replaceable edge and is of the same width as the second clearance.

IPC 8 full level  
**F02M 61/18** (2006.01); **F02M 61/08** (2006.01)

CPC (source: EP)  
**F02M 61/08** (2013.01); **F02M 61/18** (2013.01)

Cited by  
WO2007134929A1; EP1559906A3; EP2003331A1; EP2218905A1; EP2246557A1; WO2010079012A1; US8371107B2; JP2009537742A

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
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DE 102004053351 B4 20070614; DE 502005001661 D1 20071122

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