

Title (en)  
FUEL INJECTION VALVE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication  
**EP 1129286 B1 20041103 (DE)**

Application  
**EP 00967527 A 20000818**

Priority  
• DE 0002816 W 20000818  
• DE 19941930 A 19990903

Abstract (en)  
[origin: DE19941930A1] The invention relates to a fuel injection valve for an internal combustion engine with a valve body which tapers to the combustion chamber forming a ring-shaped shoulder (12) and leads into the combustion chamber into which the valve shaft (9) of the combustion chamber projects. The fuel injection valve is arranged in a receiving bore (6, 7) whereby the diameter of the receiving bore (6,7) decreases in size in the direction of the combustion chamber forming a stopping surface (8). When inserted, a ring-shaped shoulder (12) is pressed onto the stopping and a sealing disk (15) is interposed therebetween. The sealing disk (15) has, on the side facing the body holding the valve seat body (5), a peripheral annular ridge (16) which is interrupted at least at one point and surrounds the ring-shaped shoulder (12) and engages with an undercut formed in the outer casing of the ring-shaped shoulder (12) and whereby it is securely connected to the valve body (Fig. 1).

IPC 1-7  
**F02M 61/14**

IPC 8 full level  
**F02M 61/14** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)  
**F02M 61/14** (2013.01 - EP US); **F02M 2200/858** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 19941930 A1 20010315**; BR 0007063 A 20010731; DE 50008502 D1 20041209; EP 1129286 A1 20010905; EP 1129286 B1 20041103; JP 2003508683 A 20030304; US 6745956 B1 20040608; WO 0118386 A1 20010315

DOCDB simple family (application)  
**DE 19941930 A 19990903**; BR 0007063 A 20000818; DE 0002816 W 20000818; DE 50008502 T 20000818; EP 00967527 A 20000818; JP 2001521893 A 20000818; US 83092101 A 20010727