

Title (en)  
FUEL INJECTION NOZZLE FOR INTERNAL COMBUSTION ENGINES WITH SELF-IGNITION

Title (de)  
KRAFTSTOFFEINSPRITZDÜSE FÜR SELBSTZÜNDENDE BRENNKRAFTMASCHINEN

Title (fr)  
GICLEUR DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE A AUTO-ALLUMAGE

Publication  
**EP 1045982 A1 20001025 (DE)**

Application  
**EP 99947222 A 19990716**

Priority  
• DE 9902204 W 19990716  
• DE 19847460 A 19981015

Abstract (en)  
[origin: DE19847460A1] The section of the injection orifice (20) at first converges (21) and then diverges (22) to the combustion chamber, the injection orifice to be either circular, elliptical or in slot shape. The narrowest section of the orifice necessarily lies in the center of the axial extent of the orifice.

IPC 1-7  
**F02M 61/18**

IPC 8 full level  
**F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR)  
**F02M 61/18** (2013.01 - KR); **F02M 61/182** (2013.01 - EP); **F02M 61/1833** (2013.01 - EP)

Citation (search report)  
See references of WO 0023707A1

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