

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

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

Publication
EP 1802864 B1 20100505 (DE)

Application
EP 05797092 A 20051005

Priority
• EP 2005055025 W 20051005
• DE 102004050048 A 20041014

Abstract (en)
[origin: WO2006040283A1] The invention relates to a fuel injection valve with a valve body (1) in which a bore (3) having a longitudinal axis (8) is configured and is limited on one end by a valve seat (11). A valve needle (5) is located inside the bore (3) so as to be longitudinally displaced and interacts with the valve seat (11) in such a manner as to open or close a flow area from a pressure chamber (19) in a controlled manner by the longitudinal movement of the valve needle (5). The valve seat (11) and the outer wall of the valve body (1) are conical and parallel to each other, thereby forming a cone area (18) having a constant wall thickness (D_{sub})

IPC 8 full level
F02M 61/18 (2006.01)

CPC (source: EP)
F02M 61/182 (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006040283 A1 20060420; AT E467047 T1 20100515; DE 102004050048 A1 20060427; DE 502005009539 D1 20100617; EP 1802864 A1 20070704; EP 1802864 B1 20100505

DOCDB simple family (application)
EP 2005055025 W 20051005; AT 05797092 T 20051005; DE 102004050048 A 20041014; DE 502005009539 T 20051005; EP 05797092 A 20051005