

Title (en)

DEVICE FOR THE INJECTION OF FUEL INTO THE COMBUSTION CHAMBER OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUM EINSPRITZEN VON KRAFTSTOFF IN DEN BRENNRAUM EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF POUR INJECTER DU CARBURANT DANS LA CHAMBRE DE COMBUSTION D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1774166 B1 20071219 (DE)

Application

EP 05769080 A 20050805

Priority

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- AT 13512004 A 20040806

Abstract (en)

[origin: US2008283634A1] In a device for the injection of fuel into the combustion chamber of an internal combustion engine, including an injector nozzle (5) and a nozzle needle (7) guided in a longitudinally displaceable manner within the injector nozzle (5), which nozzle needle (7) is at least partially surrounded by a nozzle prechamber (8) and, for the control of its opening and closing movements, capable of being pressurized in the axial direction by the pressure prevailing in a control chamber (12) filled with fuel, a supply line runs into the control chamber (12) and a discharge line (19) in which a magnetic control valve (16) is arranged leads away from the control chamber (12). The supply line to the control chamber (12) is guided through at least one bore (14) of the nozzle needle (7), which communicates with the nozzle prechamber (8) via a supply throttle (15). Between the control chamber (12) and the nozzle prechamber (8) is arranged a further supply throttle (35), whose passage cross-section during the pass of at least a partial stroke of the nozzle needle (7) is changeable and/or closable as a function of the stroke of the nozzle needle (7).

IPC 8 full level

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CPC (source: EP KR US)

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