

Title (en)
FUEL INJECTION NOZZLE FOR INTERNAL COMBUSTION ENGINES

Publication
EP 0354905 B1 19901122 (DE)

Application
EP 88902412 A 19880322

Priority
DE 3719459 A 19870611

Abstract (en)
[origin: WO8809869A1] In a fuel injection nozzle for internal combustion engines, a preliminary injection of fuel jets is followed by a main injection of an additional fuel screen jet. The individual phases occur in a precise time sequence and the main injection is separated from the preliminary injection by a pressure stage. For this purpose, a valve sleeve (34) which opens in the direction of flow of the fuel is mounted on a valve needle (18) provided with a closing head (20), and is pressed by an additional spring (50) against the closing head (20) with which it forms an annular valve gap for the screen jet. The valve sleeve (34) is also provided with lateral injection ports (62), through which, during the preliminary stroke, when the valve sleeve (34) and valve needle (18) move under the action of the additional spring (50), the bundled jets emerge. After the preliminary stroke, further movement of the valve sleeve (34) is prevented, thereby releasing the additional spring (50) and opening the valve gap for the screen jet.

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