

Title (en)
Injection nozzle

Title (de)
Einspritzdüse

Title (fr)
Buse d'injection

Publication
EP 1717435 B1 20090812 (EN)

Application
EP 06251635 A 20060327

Priority
• EP 05252669 A 20050428
• EP 06251635 A 20060327

Abstract (en)
[origin: EP1717435A1] An injection nozzle for use in delivering fuel to an internal combustion engine includes an outer valve (24) which is engageable with an outer valve seat (38) so as to control fuel delivery into the engine through a first nozzle outlet (26) and an inner valve (32) which is slidable within a bore (30; 130) provided in the outer valve (24) and engageable with an inner valve seat (40) so as to control fuel delivery into the engine through a second nozzle outlet (28). The injection nozzle is provided with a switching valve arrangement (62, 64, 66), for controlling whether fuel is delivered through only one of the first and second outlets (26, 28) or through both of the first and second outlets (26, 28) together, wherein the switching valve arrangement (62, 64, 66) is arranged within the supply passage (22) and defines an inlet side (22b), an outlet side (22a) and flow passage means (64) to permit fuel to flow past the switching valve arrangement (62, 64, 66) to the first and second nozzle outlets (26, 28), whereby the switching valve arrangement (62, 64, 66) is operable in response to the pressure drop between the inlet side (22b) and the outlet side (22a) caused by the flow of fuel past the switching valve arrangement (62, 64, 66).

IPC 8 full level
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