

Title (en)  
INJECTION NOZZLE

Title (de)  
EINSPRITZDÜSE

Title (fr)  
INJECTEUR

Publication  
**EP 1697628 A1 20060906 (DE)**

Application  
**EP 04762761 A 20040907**

Priority  
• DE 2004001978 W 20040907  
• DE 10352504 A 20031111

Abstract (en)  
[origin: WO2005052352A1] The invention relates to an injection nozzle (1) for an internal combustion engine, particularly in a motor vehicle. A first nozzle needle (3) controls at least one first injection hole (5) while a second nozzle needle (4) controls at least one second injection hole (6). A control chamber (32) is connected to a pressure chamber (34) via a throttle line (32), an injection pressure being adjustable inside said pressure chamber (34). A first control piston (41) cooperates with a first combination of needles (17) encompassing the first nozzle needle (3) and can be impinged upon on a first control surface (43) by the control pressure prevailing in the control chamber (32). An axial play (44) is embodied between the first control piston (41) and the first combination of needles (17) in the closed position of the first nozzle needle (3). A second control piston (42) cooperates with a second combination of needles (30) encompassing the second nozzle needle (4) and can be impinged upon on a second control surface (45) by the control pressure. The second control piston (42) leans on the second combination of needles (30) in a closed position of the second nozzle needle (4).

IPC 8 full level  
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