

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFEINSPRITZER

Title (fr)
INJECTEUR DE CARBURANT

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Application
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Abstract (en)
The present invention provides a fuel injector (1) for use in an internal combustion engine, the fuel injector (1) comprising: a nozzle body (30) having a bore (31) for receiving fuel; a valve needle (20); and a lift stop component (50); wherein the valve needle (20) is slidable within the bore (31) between a closed position in which the valve needle (20) engages a nozzle seat (32) provided by the nozzle body (30) and a position of maximum lift in which the valve needle (20) engages the lift stop component (50); wherein the fuel injector (1) further comprises an engagement element (26) provided on the valve needle (20) at an end of the valve needle closest to the lift stop component (50), wherein the valve needle (20) is arranged to engage the lift stop component (50) via the engagement element (26) when in its position of maximum lift. The present invention also provides a method of manufacturing a fuel injector (1).

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Citation (search report)
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• [XI] EP 1304475 A1 20030423 - BOSCH GMBH ROBERT [DE]
• [I] US 2005269422 A1 20051208 - GERBER WOLFGANG [DE], et al

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