

Title (en)
FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINE

Title (fr)
INJECTEUR DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE

Publication
EP 1599671 B1 20060719 (FR)

Application
EP 04715357 A 20040227

Priority

- FR 2004000459 W 20040227
- FR 0302466 A 20030228

Abstract (en)
[origin: US2006231065A1] A fuel injector comprising a head which has a free outer face and a main orifice designed to spray a fuel jet in a main direction and a secondary orifice designed to spray a fuel jet in a secondary direction, the main and secondary orifices opening into the outer face and communicating directly with a common injection chamber which is selectively placed in communication with a supply chamber. The secondary direction forms an angle alpha between 10° and 80°, with the main direction so that the secondary jet intercepts the main jet in a burst zone which starts at a distance d of between 1 and 15 mm, and the flow rate of the secondary jet is between 80% and 100% of the flow rate of the main jet. The invention also relates to a spark ignition engine and to a method of manufacturing the injector.

IPC 8 full level
F02M 61/18 (2006.01)

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Cited by
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DOCDB simple family (publication)
US 2006231065 A1 20061019; US 7237527 B2 20070703; AT E333586 T1 20060815; BR PI0407918 A 20060301; BR PI0407918 B1 20160301; CN 100587253 C 20100203; CN 1754041 A 20060329; DE 602004001580 D1 20060831; DE 602004001580 T2 20070719; EP 1599671 A2 20051130; EP 1599671 B1 20060719; ES 2268634 T3 20070316; FR 2851792 A1 20040903; FR 2851792 B1 20070209; WO 2004079178 A2 20040916; WO 2004079178 A3 20041014

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