

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  
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Application  
**EP 04715357 A 20040227**

Priority

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- 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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