

Title (en)  
FUEL INJECTION NOZZLE

Publication  
**EP 0308855 A3 19900725 (DE)**

Application  
**EP 88115339 A 19880919**

Priority  
US 9868987 A 19870921

Abstract (en)  
[origin: US4796816A] The fuel injection nozzle has a nozzle body 11 with a movable fuel control valve 13. At the front end of the nozzle body 11 there is a spray tip 12 with the discharge orifices 16. The fuel jet disintegrator 17 is running through two opposite located discharge orifices 16. The ends 18 of the disintegrator 17 have a shape of a spring with outer diameter greater than a diameter of the discharge orifices 16. During the operation, fuel jet, coming from the discharge orifice 16, impinges on the disintegrator 17, breaks up into a multitude of tiny particles and produces spray which provides more complete burning of the fuel with the reduction in smoke and fuel consumption.

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**F02M 61/18**; **F02M 61/16**

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CPC (source: EP US)  
**B05B 1/262** (2013.01 - EP US); **F02M 61/18** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 2200/06** (2013.01 - EP US)

Citation (search report)

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- [XP] PATENT ABSTRACTS OF JAPAN vol. 12, no. 121 (M-686)(2968) 15 April 1988, & JP-A-62 248867 (NIPPON DENSO) 29 Oktober 1987,
- [X] PATENT ABSTRACTS OF JAPAN vol. 10, no. 286 (M-521)(2342) 27 September 1986, & JP-A-61 104156 (NIPPON DENSO) 22 Mai 1986,

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