

Title (en)

Injector with a high atomization capacity, in particular for supplying fuel to motor vehicle engines.

Title (de)

Einspritzdüse mit hoher Zerstäubungskapazität, insbesondere für Kraftstoffversorgung der Fahrzeugmotoren.

Title (fr)

Injecteur à haute capacité de pulvérisation, notamment pour l'alimentation en combustible des moteurs de véhicule.

Publication

EP 0638720 A1 19950215 (EN)

Application

EP 94111906 A 19940729

Priority

IT TO930585 A 19930806

Abstract (en)

Injector in which an obturator element (11) controlled by an electromagnetic actuator (7) controls the formation of at least one jet of fuel (15) through an atomization hole (14), characterized in that it is provided with auxiliary atomization means including at least one surface (21) arranged so as to be transversely oblique with respect to the said jet of fuel (15), at a predetermined and relatively large distance from the atomization hole (14) with respect to the jet diameter, such that the surface (21) is struck by the jet at a predetermined point (22) with an angle of impact other than 0 DEG and 90 DEG , and including moreover a duct (25) for a jet of auxiliary air (23) oriented so as to direct the jet of air (23) against the said oblique surface (21), substantially at the point of impact (22) thereon of the said jet of fuel (15). <IMAGE> <IMAGE>

IPC 1-7

F02M 69/04; **F02M 69/08**

IPC 8 full level

F02M 69/04 (2006.01); **F02M 69/08** (2006.01)

CPC (source: EP)

F02M 69/047 (2013.01); **F02M 69/08** (2013.01)

Citation (search report)

- [X] US 5224458 A 19930706 - OKADA TAKASHI [JP], et al
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FR2919028A1; WO9706365A1; WO9711271A1; EP0691470B1

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