

Title (en)

NOZZLE ELEMENT FOR DOSING LIQUIDS OR GASES

Title (de)

DÜSENEINHEIT ZUR DOSIERUNG VON FLÜSSIGKEITEN ODER GASEN

Title (fr)

ENSEMBLE BUSE POUR LE DOSAGE DE LIQUIDES OU DE GAZ

Publication

EP 1073836 B1 20041020 (DE)

Application

EP 00907430 A 20000114

Priority

- DE 0000123 W 20000114
- DE 19907356 A 19990220

Abstract (en)

[origin: WO0049287A1] The invention relates to a nozzle element (2) for dosing liquids or gases. Said nozzle element comprises a nozzle body (4) and a nozzle needle (6) which is mounted in a guide bore (5) of the nozzle body (4) and can be displaced between an open and a closed position. Said nozzle needle (6) controls at least one metering opening (9) which communicates with the guide bore (5). Said nozzle needle rests against a sealing seat (8) of the nozzle body (4) in the closed position. The invention relates to a nozzle element (2) the nozzle needle (6) of which opens into the interior and has a dead stroke (hT). Said inventive nozzle element (2) is preferably configured as an injector for a common-rail injection system of an internal combustion engine.

IPC 1-7

F02M 61/10; **F02M 45/00**; **F02M 61/04**

IPC 8 full level

F02M 21/02 (2006.01); **F02M 45/00** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 61/04** (2006.01); **F02M 61/10** (2006.01); **F02M 61/18** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 45/00 (2013.01); **F02M 47/027** (2013.01); **F02M 61/042** (2013.01); **F02M 61/10** (2013.01); **F02M 61/1806** (2013.01); **F02M 2200/21** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0049287 A1 20000824; DE 19907356 A1 20001012; DE 50008301 D1 20041125; EP 1073836 A1 20010207; EP 1073836 B1 20041020; JP 2002537516 A 20021105

DOCDB simple family (application)

DE 0000123 W 20000114; DE 19907356 A 19990220; DE 50008301 T 20000114; EP 00907430 A 20000114; JP 2000599998 A 20000114