

Title (en)

Injector for dosing fluid and method for assembling the injector

Title (de)

Injektor zum Zumessen von Fluid und Verfahren zur Montage des Injektors

Title (fr)

Injecteur pour le dosage de fluide et procédé de montage de l'injecteur

Publication

EP 1918575 B1 20091014 (EN)

Application

EP 06022853 A 20061102

Priority

EP 06022853 A 20061102

Abstract (en)

[origin: EP1918575A1] An injector (2) for dosing fluid comprises an injector body (4) having a recess (8) and an injection nozzle (18) at a tip (20) of the injector body (4). A needle (15) is arranged in the recess (8) of the injector body (4) movable in axial direction. The needle (15) prevents a fluid flow through the injection nozzle (18) in a closed position of the needle (15) and otherwise enables the fluid flow through the injection nozzle (18). An actor arrangement is arranged in the recess (8) of the injector body (4) and coupled to the needle (15) at a first axial end (13) of the actor arrangement for moving the needle (15). The actor arrangement is coupled with the injector body (4) at a second axial end (37) of the actor arrangement in such a way that the second axial end (37) is fixed relative to the injector body 4. Further, the actor arrangement comprises a piezo-actuator (10) and a calibration shim (44) for calibrating the injector (2).

IPC 8 full level

F02M 61/16 (2006.01); **F02M 51/06** (2006.01)

CPC (source: EP)

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