

Title (en)

Method for manufacturing an open/close element for servo valves of a fuel injector

Title (de)

Verfahren zur Herstellung eines Öffnen/Shliessen-Elements für Servoventile in Kraftstoffeinspritzdüsen

Title (fr)

Procédé pour la fabrication d'un élément d'ouverture/fermeture pour servovalves d'un injecteur de carburant

Publication

EP 2218901 A1 20100818 (EN)

Application

EP 09425057 A 20090216

Priority

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Abstract (en)

The manufacturing method regards an open/close element for servo valves of a fuel injector, wherein the open/close element (47) is made in a single piece with a bushing (41), which is designed to move for a certain axial travel along a fixed stem (38) for opening/closing the servo valve (5). The bushing (41) is axially movable for a travel greater than the travel of the open/close element (47) under the control of an anchor (17) actuated by an electric actuator (15). The method comprises a step of providing the bushing (41) with a guide portion (61) designed to engage the guide hole (59) for a relative displacement of the anchor (17) with respect to the bushing (41) between two stop elements (62, 65), and a step of providing an intermediate body (12a) for supporting a spring (23) acting on the bushing (41), which comprises a flange (24) provided with at least one radial notch (71). Then, the bushing (41) is arranged so as to bring the flange (24) into contact with an end edge (66) of the bushing (41), and finally the flange (24) is welded on said edge (66) in a position corresponding to the notch (71) so that a weld is made in view between the bushing (41) and the intermediate body (12a).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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