Title (en)

PROCESS FOR ADJUSTING A VALVE

Title (de)

VERFAHREN ZUR EINSTELLUNG EINES VENTILS

Title (fr)

PROCEDE PERMETTANT DE REGLER UNE SOUPAPE

Publication

EP 0682747 B1 19980610 (DE)

Application

EP 94910352 A 19940319

Priority

- DE 4310819 A 19930402
- DE 9400309 W 19940319

Abstract (en)

[origin: WO9423195A1] In prior art processes for adjusting a fuel injection valve, use is made of adjusting components like pins, screws, tubes and sleeves inside the valve, and adjusting tools. This makes heavy demands on the quality of the adjusting components and requires specific handling of the adjusting tools to prevent distortion and soiling. In the novel processes for adjusting the dynamic medium flow rate of a valve, there is a relative movement between at least one guiding component (53) at least partly peripherally surrounding the magnet coil (1) at the circumference of the valve body and the valve body itself. This alters the ratio between the useful and stray magnetic fluxes and hence the magnetic force so that the medium flow rate can be influenced and adjusted. The at least one guiding component (53) is finally secured adhesively (75), by welding (73), clamps or spring-loaded accessories (76). The processes for adjusting a valve are particularly suitable for electromagnetically operable fuel injection valves of compressed-mixture spark-ignition internal combustion engines.

IPC 1-7

F02M 51/06; F02M 61/16; F02M 65/00

IPC 8 full level

F02M 51/06 (2006.01); **F02M 51/08** (2006.01); **F02M 61/16** (2006.01); **F02M 65/00** (2006.01)

CPC (source: EP US)

F02M 51/0667 (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 65/001** (2013.01 - EP US); F02M 2200/8092 (2013.01 - EP US); Y10T 137/0318 (2015.04 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 4310819 A1 19941006; DE 59406219 D1 19980716; EP 0682747 A1 19951122; EP 0682747 B1 19980610; JP 3267623 B2 20020318; JP H07507616 A 19950824; US 5560386 A 19961001; WO 9423195 A1 19941013

DOCDB simple family (application)

DE 4310819 A 19930402; DE 59406219 T 19940319; DE 9400309 W 19940319; EP 94910352 A 19940319; JP 52152694 A 19940319; US 34736294 A 19941202