

Title (en)

Fuel injection arrangement, especially unit injector for an internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung, insbesondere Pumpedüse für Brennkraftmaschinen

Title (fr)

Dispositif d'injection de combustible, in particulier pompe-injecteur pour moteurs à combustion interne

Publication

**EP 0597249 B1 19960522 (DE)**

Application

**EP 93116228 A 19931007**

Priority

DE 4237682 A 19921107

Abstract (en)

[origin: JPH06200854A] PURPOSE: To mount or dismount a plunger pin without disassembling the whole pump nozzle. CONSTITUTION: A cam drive mechanism acts upon a pump piston 1 through a rocker lever pin 67, a plunger pin 25, and a plunger insert 27. The connection between the plunger pin and the rocker lever pin 67 and the connection between the plunger pin and the plunger insert 27 are in the manner of ball joints. The plunger pin 25 is axially secured in relation to the plunger insert 27 and the rocker lever 67 with a securing member 59 having elastic stretching properties.

IPC 1-7

**F02M 57/02**; **F02M 59/44**

IPC 8 full level

**F02M 59/10** (2006.01); **F02M 57/02** (2006.01); **F02M 59/44** (2006.01); **F02M 59/48** (2006.01)

CPC (source: EP US)

**F02M 57/023** (2013.01 - EP US); **F02M 59/44** (2013.01 - EP US); **F02M 59/48** (2013.01 - EP US)

Cited by

EP0682178A3; CN104612874A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**DE 4237682 A1 19940511**; DE 59302680 D1 19960627; EP 0597249 A1 19940518; EP 0597249 B1 19960522; JP H06200854 A 19940719; US 5402764 A 19950404

DOCDB simple family (application)

**DE 4237682 A 19921107**; DE 59302680 T 19931007; EP 93116228 A 19931007; JP 27527293 A 19931104; US 14727493 A 19931105