

Title (en)  
FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES

Publication  
**EP 0301222 B1 19920506 (DE)**

Application  
**EP 88109629 A 19880616**

Priority  
DE 3724662 A 19870725

Abstract (en)  
[origin: JPS6445959A] PURPOSE: To make it possible to actuate free from abrasion by elaborating an engagement method of a rider with a control sleeve relating to a device in which a fuel injection onset is adjusted by axially displacing the control sleeve outwardly fitted to the pump plunger, by way of rider. CONSTITUTION: A fuel injection pump has a plunger 3 reciprocated by the rotation of a cam axis through a tappet and by this reciprocation, the fuel sucked within a work chamber 18 is pressurized and discharged into the pressure passage 19. Furthermore, the injection time of fuel is adjusted due to the fact that a control sleeve 9 fitted outwardly to the plunger 3, is axially moved and by the same token, the amount of fuel injection is adjusted by a control rack 29 by moving the plunger 3 to pivot. In this instance, the head 44 of an adjusting pin 14 is formed to be equipped with two plane sections 55 and in the end surface 46 of a slide shoe 43, a facing projection 57 by way of a gap 58, is formed in between the plane sections 55.

IPC 1-7  
**F02M 59/24**; **F02M 59/44**

IPC 8 full level  
**F02M 59/24** (2006.01); **F02M 59/26** (2006.01); **F02M 59/28** (2006.01); **F02M 59/44** (2006.01)

CPC (source: EP US)  
**F02M 59/24** (2013.01 - EP US); **F02M 59/246** (2013.01 - EP US); **F02M 59/44** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0301222 A2 19890201**; **EP 0301222 A3 19900207**; **EP 0301222 B1 19920506**; DE 3870748 D1 19920611; JP S6445959 A 19890220; US 4840161 A 19890620

DOCDB simple family (application)  
**EP 88109629 A 19880616**; DE 3870748 T 19880616; JP 18373588 A 19880725; US 21304488 A 19880629