

Title (en)  
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

Publication  
**EP 0273184 A3 19890510 (DE)**

Application  
**EP 87117117 A 19871120**

Priority  
DE 3644584 A 19861227

Abstract (en)  
[origin: US4854289A] A fuel injection pump of a distributor injection pump type in which a quantity adjusting device is an annular slide that is axially displaceable on a fuel injection quantity regulator and which can additionally be rotated by a torque device. With the aid of this torque device, the control effectiveness of a second control edge, for instance in the form of a rectangular groove is controlled. The torque device is equipped with a clutch, which is embodied either via a spring or via a cam race. The torque device is actuated via an adjusting lever connected to the annular slide adjusting lever that serves to arbitrarily vary the fuel injection quantity at the direction of the driver of the motor vehicle.

IPC 1-7  
**F02M 41/12**

IPC 8 full level  
**F02M 41/12** (2006.01)

CPC (source: EP KR US)  
**F02M 41/12** (2013.01 - KR); **F02M 41/126** (2013.01 - EP US)

Citation (search report)  
• [AD] DE 3218275 A1 19821202 - DIESEL KIKI CO [JP]  
• [AD] DE 3213724 A1 19821111 - DIESEL KIKI CO [JP]  
• [A] DE 2145036 B2 19791220  
• [A] GB 2020740 A 19791121 - TRICO FOLBERTH LTD  
• [A] DE 1220669 B 19660707 - BOSCH GMBH ROBERT

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0273184 A2 19880706; EP 0273184 A3 19890510; EP 0273184 B1 19910206**; DE 3644584 A1 19880707; DE 3767989 D1 19910314; JP S63170552 A 19880714; KR 880007912 A 19880829; KR 950001332 B1 19950217; US 4854289 A 19890808

DOCDB simple family (application)  
**EP 87117117 A 19871120**; DE 3644584 A 19861227; DE 3767989 T 19871120; JP 32757587 A 19871225; KR 870014957 A 19871226; US 13070187 A 19871208