Title (en)

FUEL INJECTION PUMP

Title (de)

KRAFTSTOFFEINSPRITZPUMPE

Title (fr)

POMPE D'INJECTION DE CARBURANT

Publication

**EP 0740742 B1 19990407 (DE)**

Application

**EP 95931889 A 19950920**

Priority

- DE 9501289 W 19950920
- DE 4436416 A 19941012

Abstract (en)

[origin: DE4436416A1] The invention concerns a fuel injection pump having an annular slide valve (20) which can be displaced on the pump piston by means of a control device and which has a guiding edge by means of which a pressure-relief duct in the pump working chamber can be opened during the delivery stroke of the pump piston. The pressure relief duct part projecting from the generated surface of the pump piston is in the form of a radial bore (18) and the fuel jet discharged therefrom is deflected by a deflection surface (34) on the annular slide valve or a deflection surface (76) on the pump piston such that the jet is deflected out of the radial plane so avoiding pressure zones acting in an axial direction and different axial loads on the control valve owing to the successive individual intake control processes. In this way fluctuations in the amount of fuel injected from one injection process to the next and the load on the control device parts are also reduced.

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 (examination)

- JP S59203862 A 19841119 - NISSAN MOTOR
- JP H05256222 A 19931005

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 4436416 A1 19960418**; BR 9506410 A 19970909; CN 1063827 C 20010328; CN 1135785 A 19961113; DE 59505591 D1 19990512; EP 0740742 A1 19961106; EP 0740742 B1 19990407; JP H09507282 A 19970722; KR 100385823 B1 20030821; KR 960706604 A 19961209; US 5873346 A 19990223; WO 9612103 A1 19960425

DOCDB simple family (application)

**DE 4436416 A 19941012**; BR 9506410 A 19950920; CN 95190909 A 19950920; DE 59505591 T 19950920; DE 9501289 W 19950920; EP 95931889 A 19950920; JP 51224496 A 19950920; KR 19960702931 A 19960604; US 66320596 A 19960612