

Title (en)  
FUEL INJECTION PUMP

Title (de)  
KRAFTSTOFF-EINSPRITZPUMPE

Title (fr)  
POMPE D'INJECTION DE CARBURANT

Publication  
**EP 1163439 A1 20011219 (DE)**

Application  
**EP 01905608 A 20010108**

Priority  
• DE 0100032 W 20010108  
• DE 10000977 A 20000112

Abstract (en)  
[origin: WO0151803A1] The invention relates to a fuel injection pump comprising a housing (10), a dosing pump (18, 20) and an injection control device (26) for the dosing pump. Said injection control device is provided with a piston (28) which is impinged upon by a return spring (48). The aim of the invention is to improve starting behaviour of the internal combustion engine that is supplied by the injection pump. A starting spring (50) is additionally provided which impinges upon the piston (28) and acts against the return spring.

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

IPC 8 full level  
**F02D 1/18** (2006.01); **F02D 1/04** (2006.01); **F02M 41/12** (2006.01)

CPC (source: EP US)  
**F02M 41/12B** (2013.01 - EP US); **F02D 2001/186** (2013.01 - EP US)

Citation (search report)  
See references of WO 0151803A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 0151803 A1 20010719**; DE 10000977 A1 20010802; EP 1163439 A1 20011219; JP 2003519755 A 20030624; US 2002104515 A1 20020808;  
US 6488014 B2 20021203

DOCDB simple family (application)  
**DE 0100032 W 20010108**; DE 10000977 A 20000112; EP 01905608 A 20010108; JP 2001551982 A 20010108; US 93629802 A 20020321