

Title (en)
FUEL INJECTION PUMP

Title (de)
KRAFTSTOFFEINSPRITZPUMPE

Title (fr)
POMPE D'INJECTION DE CARBURANT

Publication
EP 1045965 A1 20001025 (DE)

Application
EP 99971490 A 19991013

Priority
• DE 9903282 W 19991013
• DE 19849925 A 19981029

Abstract (en)
[origin: DE19849925A1] Disclosed is a fuel injection pump having an injection timing mechanism whose piston (10) is impinged upon by a return spring (16) and a pressure controlled by a pilot valve (24) on one front face (12) and is constantly exposed to a pressurized fluid source on the other front face (13) preferably supplying a speed-dependent pressure. The pilot valve (24) is moved in positive fit by a control piston (29) actuated by a control pressure and alters the pressure exerted on one front face (12) in a first closed pressure chamber (14). The injection timing piston (10) is not exposed to higher setting pressures exerted on said piston crosswise in relation to its direction of movement.

IPC 1-7
F02D 1/18; **F02M 41/14**

IPC 8 full level
F02D 1/04 (2006.01); **F02D 1/18** (2006.01); **F02M 41/12** (2006.01); **F02M 41/14** (2006.01)

CPC (source: EP US)
F02D 1/183 (2013.01 - EP US); **F02M 41/1416** (2013.01 - EP US); **F02D 2001/186** (2013.01 - EP US)

Citation (search report)
See references of WO 0026520A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19849925 A1 20000504; DE 59909958 D1 20040819; EP 1045965 A1 20001025; EP 1045965 B1 20040714; JP 2002529637 A 20020910; US 6453880 B1 20020924; WO 0026520 A1 20000511

DOCDB simple family (application)
DE 19849925 A 19981029; DE 59909958 T 19991013; DE 9903282 W 19991013; EP 99971490 A 19991013; JP 2000579878 A 19991013; US 58261900 A 20000825