

Title (en)

Fuel injection pump for internal combustion engines

Title (de)

Kraftstoffeinspritzpumpe für Brennkraftmaschinen

Title (fr)

Pompe d'injection de combustible pour moteurs à combustion interne

Publication

EP 0515816 B1 19951213 (DE)

Application

EP 92106393 A 19920414

Priority

DE 4117267 A 19910527

Abstract (en)

[origin: EP0515816A1] Fuel injection pump for internal combustion engines with a fuel injection quantity adjustment device, in which by switching on a stepping motor 26 and a variation of the spring arrangement 10, 11, 12, 22 on the adjusting device, not only the start and full load injection quantity but also the idling injection quantity can be controlled as a function of operating parameters of the internal combustion engine. <IMAGE>

IPC 1-7

F02D 1/08; F02D 1/10

IPC 8 full level

F02D 1/02 (2006.01); **F02D 1/04** (2006.01); **F02D 1/08** (2006.01); **F02D 1/10** (2006.01); **F02M 59/44** (2006.01)

CPC (source: EP US)

F02D 1/08 (2013.01 - EP US); **F02D 1/10** (2013.01 - EP US); **F02M 59/447** (2013.01 - EP US)

Cited by

US6773240B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0515816 A1 19921202; EP 0515816 B1 19951213; DE 4117267 A1 19921203; DE 59204644 D1 19960125; JP H05163966 A 19930629; US 5188076 A 19930223

DOCDB simple family (application)

EP 92106393 A 19920414; DE 4117267 A 19910527; DE 59204644 T 19920414; JP 13351492 A 19920526; US 88300392 A 19920514