

Title (en)

CONTROL DEVICE FOR STOPPING AN INTERNAL COMBUSTION ENGINE

Publication

**EP 0435965 B1 19921202 (DE)**

Application

**EP 90903789 A 19900309**

Priority

DE 3924128 A 19890720

Abstract (en)

[origin: WO9101445A1] Mechanical devices are frequently used to shut off fuel injection pumps for diesel internal combustion engines. The control device according to the invention shuts off the pump by means of the steering wheel key when electrically triggered. In addition, it can be used as a redundant emergency shut-off device in electronically controlled fuel injection pumps. To this end, the control device comprises a two-way solenoid valve (19), whose switching condition is governed by the position of the steering wheel key and by a switch contact (16) of a diesel engine control device (17). The solenoid valve (19) controls the supply of engine lubricating oil to a control piston (28) which can move a control rod of the fuel injection pump which controls the fuel supply to the internal combustion engine in its working range. The displacement of the control piston (28) is influenced by a choke (42) and a nonreturn valve (33) in such a manner that after a stop position "O", the control rod (44) automatically moves to a start position "S" necessary for restarting the internal combustion engine. This control device is particularly suitable for fuel injection pumps for diesel internal combustion engines.

IPC 1-7

**F02D 17/04; F02M 63/02**

IPC 8 full level

**F02D 1/02** (2006.01); **F02D 17/00** (2006.01); **F02D 17/04** (2006.01); **F02M 63/02** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

**F02D 17/04** (2013.01 - EP US); **F02M 63/022** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **Y10S 123/11** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9101445 A1 19910207**; DE 3924128 A1 19910131; DE 59000551 D1 19930114; EP 0435965 A1 19910710; EP 0435965 B1 19921202; JP H04501160 A 19920227; US 5131358 A 19920721

DOCDB simple family (application)

**DE 9000173 W 19900309**; DE 3924128 A 19890720; DE 59000551 T 19900309; EP 90903789 A 19900309; JP 50410990 A 19900309; US 65608391 A 19910227