

Title (en)

DIESEL ENGINE INJECTION SYSTEM WITH A HIGH-PRESSURE PUMP FOR EACH CYLINDER

Publication

**EP 0195920 A3 19890215 (DE)**

Application

**EP 86101932 A 19860214**

Priority

DE 3506392 A 19850223

Abstract (en)

[origin: US4708116A] An injection system for a diesel engine with an injection pump for each cylinder has a delivery control valve 16 which is subjected to hydraulic control commands from a single central servohydraulic system, so that the respective spool 39 of the delivery control valve 16 connects the high pressure pump chamber 35 of the injection pump with its supply chamber 36. This bypassing connection occurs simultaneously in all the delivery control valves 16, however, movement of the delivery control spool 39 to a more fully open position takes place only if the associated injection pump is delivering fuel to the nozzle because the delivery pressure is used to complete the opening movement of the delivery control valve spool 39. In addition, a similarly operated pilot injection valve 60 is provided.

IPC 1-7

**F02M 59/36**; **F02M 45/06**

IPC 8 full level

**F02M 45/06** (2006.01); **F02M 59/36** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

**F02M 45/06** (2013.01 - EP US); **F02M 59/36** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US)

Citation (search report)

- [A] EP 0111200 A1 19840620 - KAWASAKI HEAVY IND LTD [JP]
- [A] EP 0063523 A1 19821027 - SEMT [FR]
- [A] US 4387686 A 19830614 - LEBLANC JEAN [FR], et al
- [A] EP 0050053 A2 19820421 - BENDIX CORP [US]
- [A] FR 2508107 A1 19821224 - BOSCH GMBH ROBERT [DE]
- [A] FR 2188065 A1 19740118 - BENDIX CORP [US]
- [A] US 4132201 A 19790102 - BART HANSUELI

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0195920 A2 19861001**; **EP 0195920 A3 19890215**; DD 243067 A5 19870218; DE 3506392 A1 19860904; US 4708116 A 19871124

DOCDB simple family (application)

**EP 86101932 A 19860214**; DD 28713086 A 19860218; DE 3506392 A 19850223; US 83095186 A 19860219