

Title (en)

Injection device for fuel-injection internal-combustion engines.

Title (de)

Einspritzeinrichtung für Einspritzbrennkraftmaschinen.

Title (fr)

Dispositif d'injection pour moteurs à combustion interne à injection.

Publication

**EP 0041939 A1 19811216 (DE)**

Application

**EP 81890085 A 19810521**

Priority

AT 308180 A 19800611

Abstract (en)

The injection pump and injection nozzle are combined to form a constructional unit, referred to as a unit fuel injector, allocated to each engine cylinder. Both a control device which controls the delivery quantity and a control device which controls the beginning of injection are integrated into each unit fuel injector. Both control devices are actuated by separate speed-measuring devices (4, 16) which are situated outside the space in which the unit fuel injectors are situated, are arranged coaxially to one another and are driven in common by the crankshaft, either directly or indirectly. (See the single figure). <IMAGE>

IPC 1-7

**F02D 1/02**; **F02D 1/10**

IPC 8 full level

**F02D 1/02** (2006.01); **F02D 1/10** (2006.01)

CPC (source: EP)

**F02D 1/02** (2013.01); **F02D 1/10** (2013.01)

Citation (search report)

- DE 2145036 A1 19730315 - BOSCH GMBH ROBERT
- FR 2152182 A5 19730420 - BOSCH
- EP 0009475 A2 19800402 - FRIEDMANN & MAIER AG [AT]
- DE 958440 C 19570221 - ORANGE G M B H L
- FR 799951 A 19360624

Cited by

CN1092108C; WO8802810A1; WO8805126A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0041939 A1 19811216**; AT 370213 B 19830310; AT A308180 A 19820715

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