Title (en)

Distributor type fuel injection pump

Title (de)

Verteilereinspritzpumpe

Title (fr)

Pompe à injection de combustible distributrice

Publication

EP 0849466 A1 19980624 (EN)

Application

EP 97309751 A 19971203

Priority

- JP 35454796 A 19961219
- JP 30349397 A 19971017

Abstract (en)

In a fuel injection pump employing an inner cam system, inflow / outflow ports (31) for taking in and cutting off fuel are formed at a rotor (8) that rotates in synchronization with an engine, a communicating hole (40) that is capable of coming into communication with these ports (31) is formed at a control sleeve (34) and two inclined edges (31a,31B,40a,40B) are formed inclining in opposite directions from a hypothetical line extending parallel to the axis at an opening end of each of the inflow / outflow ports (31) and the communicating hole (40). The inclined edges (31a,40a) of the inflow / outflow ports (31) and of the communicating hole (40) that cross each other at the end of communication between them are formed parallel to each other and the inclined edges (31B,40B) that cross each other at the start of their communication are formed parallel to each other. This achieves a full advance angle at startup of the engine without having to rely on a timing device in the fuel injection pump employing an inner cam system. Even after startup, the oil feed rate at medium to low load can be raised while keeping the drive torque under the permissible value at high load. <IMAGE>

IPC 1-7

F02M 41/14

IPC 8 full level

F02D 1/04 (2006.01); **F02D 1/08** (2006.01); **F02D 1/16** (2006.01); **F02M 41/14** (2006.01)

CPC (source: EP KR)

F02M 41/12 (2013.01 - KR); **F02M 41/1411** (2013.01 - EP)

Citation (search report)

- [A] EP 0743446 A1 19961120 - ZEXEL CORP [JP]
- [A] EP 0692622 A2 19960117 - ZEXEL CORP [JP]

Cited by

CN106762300A

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0849466 A1 19980624; JP H10231762 A 19980902; KR 19980064392 A 19981007

DOCDB simple family (application)

EP 97309751 A 19971203; JP 30349397 A 19971017; KR 19970070880 A 19971219