

Title (en)

Fuel injection pump.

Title (de)

Kraftstoffeinspritzpumpe.

Title (fr)

Pompe d'injection de combustible.

Publication

**EP 0512458 A1 19921111 (EN)**

Application

**EP 92107507 A 19920504**

Priority

JP 4119091 U 19910508

Abstract (en)

A fuel injection pump (1) with a simple structure that is able to respond to the demands of an engine by enabling both the pilot injection amount and the interval between pilot injection and main injection to be varied in accordance with the load (fuel injection amount). In the fuel injection pump, formed on the outer surface of the plunger is a pilot spill slit (32) that communicates with the fuel suction and discharge hole (26) of the plunger, a pilot injection cutoff port (33) is formed in the control sleeve (18) in a position in the axial direction that corresponds to the pilot spill slit (32), separately from the main injection cutoff port (30), and the angle of inclination from the horizontal of the pilot spill slit (32), and the mutual angle of inclination between the upper (32A) and lower edges (32B) of the slit, can be adjusted. <IMAGE>

IPC 1-7

**F02M 45/06**; **F02M 59/26**

IPC 8 full level

**F02M 45/06** (2006.01); **F02M 59/24** (2006.01); **F02M 59/26** (2006.01)

CPC (source: EP KR)

**F02M 45/066** (2013.01 - EP); **F02M 59/20** (2013.01 - KR); **F02M 59/24** (2013.01 - EP); **F02M 59/265** (2013.01 - EP)

Citation (search report)

- [A] EP 0294822 A2 19881214 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [AD] JP S6383458 U 19880601
- [A] GB 421818 A 19350101 - RICHARD OLDHAM
- [A] DE 923400 C 19550210 - VERSUCHSANSTALT FUER LUFTFAHRT
- [AD] PATENT ABSTRACTS OF JAPAN vol. 12, no. 141 (M-691)(2988) 28 April 1988 & JP-A-62 261 667 ( DIESEL KIKI ) 13 November 1987

Cited by

EP0859148A3; EP0643215A3; EP0704618A3; US2009299587A1; US8532903B2

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