

Title (en)
Distributor pump.

Title (de)
Verteilerpumpe.

Title (fr)
Pompe distributeur.

Publication
EP 0054482 A2 19820623 (EN)

Application
EP 81401966 A 19811209

Priority
• US 21729780 A 19801217
• US 21731280 A 19801217

Abstract (en)
A fuel injection system for a diesel engine having injection and metering modes of operation for delivering fuel to an engine comprising a plurality of fuel injectors (40) wherein each of said fuel injectors comprise a first port (45), a second port (47) and a metering chamber (186) for storing a premetered quantity of fuel, during the metering mode of operation, prior to the injection of said premetered quantity of fuel into the engine during the injection mode of operation. The system further includes manifold means (48) for connecting in fluid communication each of second ports of each of said fuel injector, pressure regulating means (50, 52) connected between said manifold means and a fuel reservoir (34) for regulating and for supplying fuel at said second determinable pressure to said second inlet port of each of the injectors and distributor pump means (30) connected to the said first port of each of said fuel injectors and to the fuel reservoir for sequentially pressurizing the first port of a particular injector at a pressure greater than the pressure established by the pressure regulating means causing the piston to stabilize at the bottom of its stroke and sequentially thereafter lowering said first pressure level to a pressure lower than that of the pressure established by said pressure regulating means thereby causing said piston to move causing said premetered quantity of fuel to enter said metering chamber of a particular one of said injectors through said second port and for sequentially thereafter increasing said first pressure level thereby causing said piston to pressurize the fuel within said metering chamber to initiate fuel injection into the engine through a nozzle.

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IPC 8 full level
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Cited by
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