

Title (en)

Method and apparatus for injecting fuel in a reciprocating internal combustion engine

Title (de)

Verfahren und Vorrichtung zum Einspritzen von Brennstoff bei einer Hubkolbenbrennkraftmaschine

Title (fr)

Procédé et dispositif d'injection de combustible dans un moteur à combustion interne à piston alternatif

Publication

**EP 0775821 A1 19970528 (DE)**

Application

**EP 95810733 A 19951124**

Priority

EP 95810733 A 19951124

Abstract (en)

The method involves opening the nozzles in a variable sequence. The total fuel quantity for a working cycle is injected via a single nozzle, esp. for partial engine loading. The injection valves are opened at different crankshaft angles and the sequence of opening is varied between successive operating cycles. The difference in crankshaft angles at which the valves are opened is at least 4 degrees. The injection process for all injection nozzles is terminated simultaneously. A sensor connected to a controller determines the crankshaft angle. Two controllable injection devices with nozzles or two directly driven nozzles can be used.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Einspritzen von Brennstoff in den Brennraum (43) eines Zylinders (44) einer langsamlaufenden 2-Takt-Hubkolbenbrennkraftmaschine der Dieselmotortyp, wobei mindestens zwei Einspritzdüsen (1a,1b) vorgesehen sind, derart, dass die Einspritzdüsen (1a,1b) in variierender Reihenfolge geöffnet werden. <IMAGE>

IPC 1-7

**F02M 63/00**; **F02M 51/00**

IPC 8 full level

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CPC (source: EP KR)

**F02M 51/00** (2013.01 - EP KR); **F02M 59/08** (2013.01 - EP); **F02M 63/00** (2013.01 - EP KR)

Citation (applicant)

EP 0586775 A1 19940316 - NEW SULZER DIESEL AG [CH]

Citation (search report)

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**EP 95810733 A 19951124**; CN 96117261 A 19961122; DE 59508329 T 19951124; DK 95810733 T 19951124; FI 964633 A 19961120; JP 28240696 A 19961024; KR 19960054441 A 19961115