

Title (en)

Electronically controlled internal-combustion engine fuel injection supply device.

Title (de)

Einrichtung zur Kraftstoff-Einspritzung für einen elektronisch gesteuerten Brennkraftmotor.

Title (fr)

Dispositif d'alimentation par injection pour moteur à combustion interne, à commande électronique.

Publication

**EP 0390667 A1 19901003 (FR)**

Application

**EP 90400828 A 19900327**

Priority

FR 8904287 A 19890331

Abstract (en)

The device has applications particularly in the multi-point injection system of motor vehicle engines. It comprises at least one injector (34) and an electronic control circuit (46) connected to the engine's operating parameter sensors, in particular those sensing its speed, and supplying the injector with periodic cyclical ratio signals as a function of the said parameters, synchronised with the movements of the engine when the latter is operating normally. The electronic control circuit (46) is designed to apply asynchronous signals to the injector or to each injector (34) at a frequency very much higher than that which would be provided by the normal operating distribution as long as the engine speed does not reach a threshold determined from the initial starting. <IMAGE>

IPC 1-7

**F02D 41/06**; **F02D 41/34**

IPC 8 full level

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CPC (source: EP US)

**F02D 41/062** (2013.01 - EP US); **F02D 41/064** (2013.01 - EP US)

Citation (search report)

- [XD] US 3628510 A 19711221 - MOULDS JOHN W, et al
- [A] FR 2612256 A1 19880916 - RENAULT [FR]
- [A] FR 2374517 A1 19780713 - BENDIX CORP [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 21 (M-661) 22 janvier 88, & JP-A-62 178739 (HITACHI LTD.) 05 août 87,
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 181 (M-492) 25 juin 86, & JP-A-61 028729 (NIPPON DENSO CO.LTD.) 08 février 86,

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