

Title (en)
METHOD FOR FUEL INJECTION IN AN ENGINE

Publication
EP 0371158 B1 19910911 (DE)

Application
EP 88119832 A 19881128

Priority
EP 88119832 A 19881128

Abstract (en)
[origin: US4998522A] A method for injecting fuel into an internal-combustion engine. In a method for operating an injection system, injection into the individual cylinders is carried out by groups before a synchronization time at which the position of the individual signals is known on the basis of two transmitters. The groups are selected such that an injection into an open intake valve is avoided. Upon transition to the normal, sequential injection, the first cylinder into which injection is carried out is identified such that no double injection at a cylinder occurs. This method avoids a lengthening of the start time due to the lack of injection and also avoids an increased exhaust emission due to bank injection before the synchronization time.

IPC 1-7
F02D 41/06; **F02D 41/36**

IPC 8 full level
F02D 41/00 (2006.01); **F02D 41/06** (2006.01); **F02D 41/36** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)
F02D 41/0087 (2013.01 - EP US); **F02D 41/062** (2013.01 - EP US); **F02B 2075/027** (2013.01 - EP US)

Cited by
EP0640762A1; EP0638717A3; FR2932225A1; DE10056862C1; DE4310460C2; FR2701515A1; EP0614005A3; DE10221393A1; DE10221393B4; DE10042842B4; CN115355096A; DE10056863C1; DE19929291A1; DE4303422A1; US5460134A; DE4141713C2; US6571772B1; US6769412B2; US6880531B2; WO0240848A1; WO0240847A3; WO9312333A1; WO9423192A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0371158 A1 19900606; **EP 0371158 B1 19910911**; DE 3864829 D1 19911017; ES 2024616 B3 19920301; US 4998522 A 19910312

DOCDB simple family (application)
EP 88119832 A 19881128; DE 3864829 T 19881128; ES 88119832 T 19881128; US 43119989 A 19891103