

Title (en)  
PROCESS AND DEVICE FOR EMERGENCY FUEL REGULATION

Publication  
**EP 0438433 B1 19930818 (DE)**

Application  
**EP 89910837 A 19891005**

Priority  
DE 3835282 A 19881015

Abstract (en)  
[origin: WO9004092A1] In a process for regulating the amount of fuel to be supplied to an internal combustion engine which is not operating without a load, even when the load signal is deficient, several emergency injection times are used which are modified by the settings of a lambda regulator, so that one injection duration corresponds to each emergency injection time. The injection durations essentially cover all injection times that may be encountered during operation of an internal combustion engine. The lambda regulation therefore remains in operation. The point around which regulation must be carried out is found by "passing through" the injection durations. A device for implementing this process has means for recognizing the individual steps of the process. In a process for regulating the amount of fuel to be supplied to an unloaded internal combustion engine, even when the load signal is deficient, a substitute load value is set, the actual speed of rotation is measured and an injection time is read in a characteristic diagram using said values as addressing values. This process results in low exhaust gas values even in emergencies. The catalyst is further protected against overheating, since the mixtures produced, which are non-explosive, only occur infrequently.

IPC 1-7  
**F02D 41/22**; **F02D 41/28**; **F02D 41/34**

IPC 8 full level  
**F02D 41/14** (2006.01); **F02D 41/08** (2006.01); **F02D 41/22** (2006.01); **F02D 41/24** (2006.01); **F02D 41/26** (2006.01); **F02D 41/28** (2006.01); **F02D 41/34** (2006.01)

CPC (source: EP KR US)  
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**WO 9004092 A1 19900419**; DE 3835282 A1 19900419; DE 58905335 D1 19930923; EP 0438433 A1 19910731; EP 0438433 B1 19930818; JP 2804809 B2 19980930; JP H04501155 A 19920227; KR 0147076 B1 19980817; KR 900702206 A 19901206; US 5150698 A 19920929

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