

Title (en)
CONTROL DEVICE FOR A DIESEL ENGINE

Publication
EP 0280188 B1 19911106 (DE)

Application
EP 88102346 A 19880218

Priority
DE 3705972 A 19870225

Abstract (en)
[origin: US4903670A] A diesel internal combustion engine 1 has an air intake 2, an injection pump 3 and an exhaust pipe 4. In the fuel injection line 7 is arranged an electromagnetic shut-off valve 8, which closes the fuel supply when the "ignition" switch 10 is turned off, in order to bring the engine 1 to an immediate halt. In the exhaust pipe 4 is arranged a lambda lean probe 12, which feeds to a comparator electronics system 14 a signal corresponding to the oxygen content of the exhaust gas; this signal is compared in the comparator circuit with a lambda nominal value. If an excess quantity of fuel has been injected, for example, due to a fault in the injection system the value detected by the lambda probe 12 will fail to reach the nominal value, whereupon the comparator electronic system 14 activates a switch 15 in the control line 9 of the shut-off valve 8. The current supply to the shut-off valve 8 is interrupted and the fuel supply to the engine 1 is shut off. In this way unintentional acceleration of the engine as a result of faulty injection of an excess quantity of fuel, is prevented.

IPC 1-7
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IPC 8 full level
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CPC (source: EP US)
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Cited by
US5699767A; US6668630B1; WO0022288A1; WO9201861A1

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