Title (en)

Method for recognising and determining a defective high pressure pump of a common rail system by means of sensor signals and control device for a combustion engine

Title (de)

Verfahren zur Erkennung und Bestimmung einer defekten Hochdruckpumpe eines Common-Rail-Systems mittels Sensorsignalen und Steuergerät an einer Brennkraftmaschine

Title (fr)

Procédé de reconnaissance et de détermination d'une pompe à haute pression défectueuse d'un système à rampe commune à l'aide de signaux de détection et d'appareil de commande sur un moteur à combustion interne

Publication

EP 2336533 A2 20110622 (DE)

Application

EP 10015600 A 20101214

Priority
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- DE 102009059674 A 20091219
- DE 102010024401 A 20100619
- DE 102010024402 A 20100619

Abstract (en)

The engine (1) has two injection pumps (2, 3) driven by a camshaft/crankshaft of the engine. The pumps convey a fuel into a common rail (4) and into a respective cylinder head of the engine. The common rail has a rail pressure sensor (5), which determines rail pressure and transmits the determined rail pressure to an engine control device (7). A camshaft/crankshaft angle sensor (6) transmits a crank angle of the camshaft/crankshaft to the engine control device. The control device transmits a warning signal to an error memory (9). An independent claim is also included for a method for safe operation of an internal combustion engine.

Abstract (de)

Verfahren zur Erkennung und Bestimmung einer defekten Hochdruckpumpe eines Common-Rail-Systems mittels Sensorsignalen und Steuergerät an einer Brennkraftmaschine mit wenigstens zwei Einspritzpumpen (2,3), wenigstens einem Raildrucksensor (5), wenigstens einem Nocken-/Kurbelwellenwinkelsensor und wenigstens einem Motorsteuergerät (7).

IPC 8 full level

F02D 41/22 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

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