

Title (en)

Apparatus for determining malfunctioning of fuel injection control system

Title (de)

Fehlerüberwachungsvorrichtung für ein Brennstoffeinspritzsteuerungssystem

Title (fr)

Dispositif pour identifier le malfonctionnement d'un système de commande d'injection de carburant

Publication

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Application

EP 96120868 A 19961224

Priority

JP 33734895 A 19951225

Abstract (en)

A system for detecting malfunctions in an apparatus for controlling a fuel injection mechanism of a diesel engine (2) provided with a plurality of cylinders (C) is disclosed. Each cylinder (C) accommodates a piston (42) for producing rotation of a crankshaft (40) and a nozzle (4) for performing fuel injection during each reciprocation cycle of the piston (42). Injection amount of the fuel is altered based on a compensation value computed for each cylinder (C) so as to minimize a value indicating cyclic rotating speed fluctuation of the crankshaft (40) produced by each cylinder (C). The system is characterized by memory means for storing an initial data indicative of the compensation value of each cylinder (C) computed during an initial injection stage of each nozzle (4), comparing means for comparing a malfunction judgement value with a magnitude obtained by computing the difference or ratio between an actual compensation value and the initial data, and determining means for determining the malfunctioning of the apparatus when the computed magnitude exceeds the predetermined range. <IMAGE>

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