

Title (en)  
Apparatus and method for diagnosing fuel supply system of internal combustion engine

Title (de)  
Vorrichtung und Verfahren zur Diagnose eines Kraftstoffversorgungssystems

Title (fr)  
Dispositif et procédé de diagnostic d'un système d'alimentation de carburant

Publication  
**EP 1215386 A2 20020619 (EN)**

Application  
**EP 01129734 A 20011213**

Priority  
JP 2000381626 A 20001215

Abstract (en)  
Apparatus and method for diagnosing a fuel supply system of an internal combustion engine wherein a compensation amount (qcy) for each cylinder is determined on the basis of a deviation (DNE) of an actual operating state of the engine with respect to a desired operating state thereof, and the fuel supply system is feedback-controlled by compensating a commanded value (QFIN) of a quantity of injection of a fuel by the fuel supply system into the internal combustion engine, according to the compensation amount. The apparatus and method include respectively include a diagnosing device (52) and a diagnostic step for effecting a diagnostic compulsory adjustment (in steps S590 and S600) of an operating condition of the fuel supply system for each cylinder when the absolute value of the compensation amount (qcy) exceeds a predetermined threshold (A) (when affirmative decision is obtained in step S550), and for diagnosing the fuel supply system on the basis of a speed variation of the engine cause by the adjustment. <IMAGE>

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Citation (applicant)  
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