

Title (en)

Exhaust purification system of an internal combustion engine

Title (de)

Abgasreinigungssystem für eine Brennkraftmaschine

Title (fr)

Système de purification des gaz d'échappement pour un moteur à combustion interne

Publication

**EP 1515029 A2 20050316 (EN)**

Application

**EP 04021239 A 20040907**

Priority

JP 2003321408 A 20030912

Abstract (en)

In an exhaust purification system of an internal combustion engine (1) that includes a NOx catalyst (16) for occluding and reducing NOx in exhaust, when removing SOx deposited in the NOx catalyst, a concentration of sulfur in a fuel is detected, and an amount of SOx deposited in the NOx catalyst is estimated taking into consideration the concentration of sulfur in the fuel. Further, an air-fuel ratio of exhaust flowing into the NOx catalyst (16) is changed to a richer side air-fuel ratio depending on a decrease in the estimated SOx amount, thereby adjusting an HC concentration of exhaust flowing out from the NOx catalyst (16) to a level equal to or less than a permissible HC concentration.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

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**EP 1515029 A2 20050316**; **EP 1515029 A3 20060607**; **EP 1515029 B1 20090225**; DE 602004019609 D1 20090409; ES 2318225 T3 20090501; JP 2005090253 A 20050407; JP 4241279 B2 20090318

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