

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 A3 20060607 (EN)

Application
EP 04021239 A 20040907

Priority
JP 2003321408 A 20030912

Abstract (en)
[origin: EP1515029A2] 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 8 full level
F01N 3/08 (2006.01); **F02D 41/02** (2006.01); **B01D 53/94** (2006.01); **F01N 3/00** (2006.01); **F01N 3/20** (2006.01); **F01N 3/28** (2006.01); **F01N 3/36** (2006.01)

CPC (source: EP)
F02D 41/028 (2013.01); **F02D 2200/0611** (2013.01); **F02D 2200/0818** (2013.01)

Citation (search report)

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- [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13 5 February 2001 (2001-02-05)

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