

Title (en)

Exhaust gas purifying apparatus of internal combustion engine

Title (de)

Abgasreinigungsanlage für Verbrennungskraftmaschine

Title (fr)

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

Publication

**EP 1657411 A1 20060517 (EN)**

Application

**EP 05024424 A 20051109**

Priority

JP 2004326922 A 20041110

Abstract (en)

An exhaust gas purifying apparatus of an internal combustion engine has SO<sub>x</sub> keeping means (3) provided in an exhaust passage, the SO<sub>x</sub> keeping means (3) including an SO<sub>x</sub> keeping agent and having an SO<sub>x</sub> keeping ability of keeping in its interior SO<sub>x</sub> contained in exhaust gas, SO<sub>x</sub> keeping agent solution storage means (7) that stores a solution of said SO<sub>x</sub> keeping agent and SO<sub>x</sub> keeping agent supply means (6) that supplies the solution of said SO<sub>x</sub> keeping agent stored in said SO<sub>x</sub> keeping agent solution storage means (7) to said SO<sub>x</sub> keeping means (3). By this structure of the exhaust gas purifying apparatus of the internal combustion engine, SO<sub>x</sub> is prevented from taken into an NO<sub>x</sub> removing catalyst (4) provided in an exhaust passage as much as possible.

IPC 8 full level

**F01N 3/08** (2006.01); **C10L 1/24** (2006.01); **F01N 3/029** (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP)

**C10L 10/02** (2013.01); **F01N 3/029** (2013.01); **F01N 3/0814** (2013.01); **F01N 3/085** (2013.01); **F01N 3/0871** (2013.01); **F01N 3/206** (2013.01); **F01N 2250/12** (2013.01); **F01N 2430/04** (2013.01); **F01N 2900/1612** (2013.01)

Citation (applicant)

JP H06173652 A 19940621 - TOYOTA MOTOR CORP

Citation (search report)

- [A] US 5472673 A 19951205 - GOTO MASATO [JP], et al
- [A] EP 1411107 A1 20040421 - ETHYL CORP [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08 6 October 2000 (2000-10-06)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1657411 A1 20060517**; **EP 1657411 B1 20070516**; DE 602005001150 D1 20070628; DE 602005001150 T2 20080110; JP 2006138223 A 20060601; JP 4089683 B2 20080528

DOCDB simple family (application)

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