

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 SOx keeping means (3) provided in an exhaust passage, the SOx keeping means (3) including an SOx keeping agent and having an SOx keeping ability of keeping in its interior SOx contained in exhaust gas, SOx keeping agent solution storage means (7) that stores a solution of said SOx keeping agent and SOx keeping agent supply means (6) that supplies the solution of said SOx keeping agent stored in said SOx keeping agent solution storage means (7) to said SOx keeping means (3). By this structure of the exhaust gas purifying apparatus of the internal combustion engine, SOx is prevented from taken into an NOx 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)

EP 05024424 A 20051109; DE 602005001150 T 20051109; JP 2004326922 A 20041110