

Title (en)

Deterioration determination device and method for exhaust emission reduction device

Title (de)

Alterungsbestimmungsvorrichtung und Verfahren für Abgasreinigungsvorrichtung

Title (fr)

Dispositif de détermination de la détérioration et procédé pour dispositif de réduction des émissions d'échappement

Publication

EP 2151554 B1 20100714 (EN)

Application

EP 09166320 A 20090724

Priority

- JP 2008201476 A 20080805
- JP 2009043423 A 20090226

Abstract (en)

[origin: EP2151554A1] A deterioration determination device for an exhaust emission reduction device which is capable of accurately and rapidly determining deterioration of a NOx purifying catalyst. An ECU executes high NOx concentration control in deterioration determination, calculates a NOx supply (sumPreNOx) amount based on upstream NOx concentration detected during execution of the high NOx concentration control, calculates a NOx slip (sumPostNOx) amount based on downstream NOx concentration detected during execution of the high NOx concentration control, and determines the NOx purifying catalyst to be deteriorated when the condition of the NOx slip amount exceeds a reference value (NOxJUD) is satisfied, in a case where the NOx supply amount exceeds a predetermined threshold (NOxREF).

IPC 8 full level

F01N 3/08 (2006.01)

CPC (source: EP US)

F01N 3/0842 (2013.01 - EP US); **F01N 3/0871** (2013.01 - EP US); **F01N 13/0093** (2014.06 - EP US); **F01N 2560/026** (2013.01 - EP US)

Cited by

US11617850B2; US11975139B2; US11497878B2; US11479464B2; US10279139B2; US10773047B2; US11833309B2; US11911566B2; US11045620B2; US11478601B2; US11827989B2; US10328228B2; US10576239B2; US11033705B2; US11524134B2; US10239038B2; US10293133B2; US10434276B2; US10646682B2; US10919768B2; US10994996B2; US11007503B2; US11945719B2; US11945720B2; US12011544B2; US10286176B2; US10532176B2; US10695523B2; US10946163B2; US11376390B2; US11691879B2; US9573110B2

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DOCDB simple family (publication)

EP 2151554 A1 20100210; **EP 2151554 B1 20100714**; AT E474131 T1 20100715; DE 602009000061 D1 20100826; JP 2010059956 A 20100318; JP 4576464 B2 20101110; US 2010031634 A1 20100211

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