

Title (en)

Control method for thermal engine exhaust gases processing and vehicle using this method

Title (de)

Verfahren zur Kontrolle der Behandlung der Abgase eines Verbrennungsmotors und Fahrzeug, das dieses Verfahren benützt

Title (fr)

Procédé de contrôle du traitement des gaz d'échappement d'un moteur thermique et véhicule à moteur thermique mettant en oeuvre ce procédé

Publication

EP 1577525 A3 20051019 (FR)

Application

EP 05300128 A 20050217

Priority

FR 0450385 A 20040227

Abstract (en)

[origin: EP1577525A2] The processing of exhaust gases of a heat engine is checked by checking the modeling of the trap by measuring a quantity of the nitrogen oxides stored in the trap by means of a sensor, comparing the measured quantity of nitrogen oxides to a modeled quantity of nitrogen oxides stored, and correcting the model if the measured quantity of nitrogen oxides is different from the modeled quantity by more than a further threshold. Checking the processing of exhaust gases (406) of a heat engine comprises checking the modeling of the trap (404) by measuring a quantity of the nitrogen oxides (NOx) stored in the trap by means of a sensor (408) located downstream of the trap, comparing the measured quantity of NOx to a modeled quantity of NOx stored, determined according to the model, and correcting the model if the measured quantity of NOx is different from the modeled quantity by more than a further threshold. NOx contained in the exhaust gases are stored and then reduced in a trap modeled such that the reduction of the NOx is actuated when the storage capacity of the trap, determined according to the model, reaches a threshold.

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CPC (source: EP US)

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Citation (search report)

[X] US 6418711 B1 20020716 - SURNILLA GOPICHANDRA [US], et al

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