

Title (en)

Method for operating a direct injection engine

Title (de)

Verfahren zum Betreiben einer direkteinspritzenden Brennkraftmaschine

Title (fr)

Procédé pour faire fonctionner un moteur à combustion interne à injection directe

Publication

EP 1403492 B1 20080827 (DE)

Application

EP 03021026 A 20030917

Priority

DE 10244391 A 20020924

Abstract (en)

[origin: EP1403492A2] Process for operating a direct injection I.C. engine containing a catalyst system with a nitrogen oxides storage catalyst comprises storing nitrogen oxides in the storage catalyst under a first operating condition, and releasing the nitrogen oxides from the catalyst under a second operating condition. A predetermined maximum time duration is assigned to each point in a load rotational speed mapping for each first operating condition which then switches to a second operating condition assigned to this point. The first operating condition comprises a lean operation, especially a shift operation and/or homogeneous lean operation. The lambda value for an air-fuel ratio in the first operating condition is more than 1.1. The second operating condition comprises a stoichiometric operation with a lambda value for an air-fuel ratio equal to 1. The predetermined maximum time duration is 0-20 seconds, preferably 0-5 seconds.

IPC 8 full level

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CPC (source: EP)

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EP 1403492 A2 20040331; **EP 1403492 A3 20060906**; **EP 1403492 B1 20080827**; AT E406514 T1 20080915; DE 10244391 A1 20040401; DE 50310403 D1 20081009

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