Title (en)
  Method and device for regenerating an NOx storage catalytic converter

Title (de)
  Verfahren und Vorrichtungen zur Regeneration eines NOx-Speicherkatalysators

Title (fr)
  Méthode et appareil de régénération d'un catalyseur accumulateur de NOx

Publication
  EP 1209332 B1 20080625 (DE)

Application
  EP 01250407 A 20011121

Priority
  • DE 10057936 A 20001122
  • DE 10057938 A 20001122

Abstract (en)
  [origin: EP1209332A2] Process for regenerating a NOx storage catalyst (18) arranged in the exhaust gas channel (14) of a lean-burn I.C. engine comprises extrapolating an oxygen-dependent signal from an oxygen-sensitive measuring device (20) during NOx regeneration; and varying an air-fuel ratio (combustion lambda) fed to the engine during regeneration depending on the extrapolated signal with consideration of a time spread corresponding to an exhaust gas running time between the engine and the catalyst. An Independent claim is also included for a device for regenerating a NOx storage catalyst arranged in the exhaust gas channel of a lean-burn I.C. engine. Preferred Features: The end of the regeneration is determined whilst a time spread corresponding to an exhaust gas running time between the engine and the catalyst is considered. The combustion lambda of the engine peaks at a value which is larger than a prescribed combustion lambda value and 1.

IPC 8 full level
  F02D 41/02 (2006.01); **F01N 3/08** (2006.01); **F02D 41/14** (2006.01); F01N 13/02 (2010.01)

CPC (source: EP)
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  F02D 41/1454 (2013.01); F02D 2200/0804 (2013.01); F02D 2200/0806 (2013.01); F02D 2200/0814 (2013.01); F02D 2200/0816 (2013.01)

Cited by
  US7946108B2; CN106523087A; GB2504975A; FR3030620A1; RU2700177C2; GB2424197A; GB2424197B; WO2016102843A1; US8006480B2; WO2009013609A3; WO2005066468A3

Designated contracting state (EPC)
  DE ES FR GB IT

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