

Title (en)

Method for determining the carbon concentration in the exhaust gas in a direct-injection combustion machine and combustion machine for performing such a method

Title (de)

Verfahren zur Bestimmung der Rußkonzentration im Abgas einer direkteinspritzenden Brennkraftmaschine und Brennkraftmaschine zur Durchführung eines derartigen Verfahrens

Title (fr)

Procédé de détermination de la concentration de rouille dans les gaz d'échappement d'un moteur à combustion interne à injection directe et moteur à combustion interne destiné à exécuter un tel procédé

Publication

**EP 1854985 B1 20141203 (DE)**

Application

**EP 07105614 A 20070404**

Priority

DE 102006021302 A 20060508

Abstract (en)

[origin: EP1854985A2] The method involves storing soot particles of exhaust gas in an exhaust gas after treatment system (2), and providing characteristic diagrams, which reproduce a functional correlation between soot concentration and nitrogen oxide concentration for different operating conditions of an internal combustion engine. The actual nitrogen oxide in the gas is determined by a nitrogen oxide sensor (3), and the determined concentration is used together with parameters for reading actual soot concentration as output signal, where the parameters describe the conditions as an input signal for the diagrams. An independent claim is also included for a direct injection internal combustion engine for executing an exhaust gas soot concentration determining method.

IPC 8 full level

**F02D 41/14** (2006.01)

CPC (source: EP)

**F02D 41/146** (2013.01); **F02D 41/1467** (2013.01)

Cited by

EP2826968A4

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1854985 A2 20071114; EP 1854985 A3 20130619; EP 1854985 B1 20141203; DE 102006021302 B3 20071129**

DOCDB simple family (application)

**EP 07105614 A 20070404; DE 102006021302 A 20060508**