Title (en)

EXHAUST PARTICULATE MATTER MEASURING APPARATUS

Title (de)

VORRICHTUNG ZUR MESSUNG VON ABGASTEILCHENMATERIAL

Title (fr)

APPAREIL DE MESURE DE MATIÈRES PARTICULAIRES DANS DES GAZ D'ÉCHAPPEMENT

Publication

EP 2035819 A2 20090318 (EN)

Application

EP 07734549 A 20070514

Priority

- IB 2007001240 W 20070514
- JP 2006135602 A 20060515

Abstract (en)

[origin: WO2007132334A2] A PM sensor (62) for measuring particle matter in exhaust gas is disposed between a three-way catalyst (49) and a muffler (5) in an exhaust pipe (47), and has an oxidation catalyst (71) and an electrical heater (72) that are stacked together, and a temperature sensor (73) that measures a temperature of the oxidation catalyst (71) interposed between the oxidation catalyst (71) and the electrical heater (72). The oxidation catalyst (71) carries a ceria as an oxygen-storing agent that occludes oxygen in the exhaust gas, and a ECU (51) calculates a sediment amount of the exhaust particulate matter based on an amount of temperature rise when the electrical heater (72) heats the oxidation catalyst (71) and an accumulated value of an intake air amount.

IPC 8 full level

G01N 25/00 (2006.01); **G01N 15/06** (2006.01)

CPC (source: EP US)

F01N 3/101 (2013.01 - EP US); **F01N 3/106** (2013.01 - EP US); **F01N 3/2026** (2013.01 - EP US); **F01N 11/002** (2013.01 - EP US); **F01N 13/009** (2014.06 - EP US); **F01N 13/0093** (2014.06 - EP US); **F02D 41/0235** (2013.01 - EP US); **G01N 1/2252** (2013.01 - EP US); F01N 2560/025 (2013.01 - EP US); F01N 2560/05 (2013.01 - EP US); F01N 2560/06 (2013.01 - EP US); F02D 41/123 (2013.01 - EP US); G01N 15/06 (2013.01 - EP US); Y02T 10/12 (2013.01 - EP US); Y02T 10/40 (2013.01 - EP US)

Citation (search report)

See references of WO 2007132334A2

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007132334 A2 20071122; **WO 2007132334 A3 20080124**; **WO 2007132334 A8 20080221**; CN 101449152 A 20090603; EP 2035819 A2 20090318; JP 2007304068 A 20071122; JP 4172497 B2 20081029; US 2009094963 A1 20090416

DOCDB simple family (application)

IB 2007001240 W 20070514; CN 200780017900 A 20070514; EP 07734549 A 20070514; JP 2006135602 A 20060515; US 22728907 A 20070514