

Title (en)
CATALYTIC EXHAUST GAS CLEANING SYSTEM AND CORRESPONDING COMPENSATION LAYER, ESPECIALLY FOR MOTOR VEHICLES

Title (de)
KATALYTISCHE ABGASREINIGUNGSEINRICHTUNG UND ZUGEHÖRIGE AUSGLEICHSSCHICHT, INSBESONDERE FÜR KRAFTFAHRZEUGE

Title (fr)
DISPOSITIF D'EPURATION CATALYTIQUE DE GAZ D'ECHAPPEMENT ET COUCHE DE COMPENSATION CORRESPONDANTE, NOTAMMENT POUR VEHICULES A MOTEUR

Publication
EP 1053391 A1 20001122 (DE)

Application
EP 99906117 A 19990112

Priority
• DE 19804213 A 19980203
• EP 9900127 W 19990112

Abstract (en)
[origin: DE19804213A1] The invention relates to a catalytic exhaust gas cleaning system (1) and a corresponding compensation layer (4), especially for motor vehicles. The inventive system reliably protects a so-called swelling mat (5) from strongly pulsating streams of exhaust gases, even at very high ambient temperatures. To this end, a compensation layer (4) comprising the swelling mat (5) and an insulating mat (6) is provided between an outer housing (3) and a honeycomb (2). An edging (7) is produced preferably by folding round the insulating mat (6). Said edging (7) is thicker in the area of at least one face of the honeycomb (2) than in the remaining inner area (8) of the insulating mat (6). Next to the side of the inner area (8) facing away from the honeycomb (2), the swelling mat (5) is arranged so that the thicker area of the edging (7) of the insulating mat (6) covers those edge areas of the swelling mat (5) which are at risk of abrasion. The compensation layer (4) preferably consists of a composite material which can be wound. The invention is characterised by its especially simple and effective construction and is also suitable for use in devices within motor vehicle exhaust gas cleaning systems (1) which are situated close to the engine, even when thin-walled-ceramic honeycombs are used.

IPC 1-7
F01N 3/28; F01N 7/14

IPC 8 full level
B01D 53/86 (2006.01); **F01N 3/28** (2006.01); **F01N 7/14** (2006.01); **F01N 13/14** (2010.01)

CPC (source: EP KR US)
F01N 3/28 (2013.01 - KR); **F01N 3/2857** (2013.01 - EP US); **F01N 3/2864** (2013.01 - EP US); **F01N 13/14** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US)

Citation (search report)
See references of WO 9940300A1

Designated contracting state (EPC)
DE ES FR IT

DOCDB simple family (publication)
DE 19804213 A1 19990805; AU 2616499 A 19990823; CN 1185406 C 20050119; CN 1289390 A 20010328; EP 1053391 A1 20001122; JP 2002502930 A 20020129; JP 4278865 B2 20090617; KR 100538393 B1 20051223; KR 20010040610 A 20010515; PL 342029 A1 20010507; RU 2187002 C2 20020810; US 7179429 B1 20070220; WO 9940300 A1 19990812

DOCDB simple family (application)
DE 19804213 A 19980203; AU 2616499 A 19990112; CN 99802666 A 19990112; EP 9900127 W 19990112; EP 99906117 A 19990112; JP 2000530694 A 19990112; KR 20007008479 A 20000803; PL 34202999 A 19990112; RU 2000123165 A 19990112; US 63224800 A 20000803