

Title (en)  
DEVICE FOR THE PURIFICATION OF EXHAUST GASES FROM A HEAT ENGINE, COMPRISING A CERAMIC CARRIER AND AN ACTIVE PHASE MECHANICALLY ANCHORED IN THE CARRIER

Title (de)  
VORRICHTUNG ZUR REINIGUNG VON ABGASEN AUS EINER WÄRMESKRAFTMASCHINE MIT EINEM KERAMISCHEN TRÄGER UND EINER MECHANISCH IM TRÄGER VERANKERTEN AKTIVEN PHASE

Title (fr)  
DISPOSITIF D'ÉPURATION DES GAZ D'ÉCHAPPEMENT D'UN MOTEUR THERMIQUE COMPRENANT UN SUPPORT CÉRAMIQUE ET UNE PHASE ACTIVE ANCRÉE MÉCANIQUEMENT DANS LE SUPPORT

Publication  
**EP 2723496 A1 20140430 (FR)**

Application  
**EP 12730415 A 20120608**

Priority  
• FR 1155688 A 20110627  
• EP 2012060904 W 20120608

Abstract (en)  
[origin: WO2013000683A1] The invention relates to a device for the purification of exhaust gases from a heat engine, including: one or more ceramic catalyst carriers comprising an arrangement of crystallites having the same size, the same isodiametric morphology and the same chemical composition or essentially the same size, the same isodiametric morphology and the same chemical composition, in which each crystallite is in point contact or almost in point contact with the surrounding crystallites; and one or more active phases for the chemical destruction of impurities in the exhaust gas, comprising metal particles that are mechanically anchored in the catalyst carrier, such that the coalescence and mobility of each particle are limited to a maximum volume corresponding to that of a crystallite of the ceramic catalyst carrier.

IPC 8 full level  
**B01J 35/08** (2006.01); **B01D 53/94** (2006.01); **B01J 35/10** (2006.01); **C04B 38/06** (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP KR US)  
**B01D 53/945** (2013.01 - EP KR US); **B01J 21/005** (2013.01 - EP KR US); **B01J 23/005** (2013.01 - EP KR US); **B01J 23/63** (2013.01 - EP KR US); **B01J 23/83** (2013.01 - EP KR US); **B01J 35/393** (2024.01 - EP KR US); **B01J 35/51** (2024.01 - KR); **B01J 35/60** (2024.01 - KR); **B01J 37/0045** (2013.01 - EP KR US); **B01J 37/0215** (2013.01 - EP KR US); **B01J 37/0242** (2013.01 - EP KR US); **C04B 38/06** (2013.01 - EP KR US); **F01N 3/18** (2013.01 - US); **F01N 3/28** (2013.01 - KR); **F01N 3/2825** (2013.01 - EP KR US); **F01N 3/2832** (2013.01 - EP KR US); **B01D 2255/102** (2013.01 - EP US); **B01D 2255/1021** (2013.01 - EP KR US); **B01D 2255/1023** (2013.01 - EP KR US); **B01D 2255/1025** (2013.01 - EP KR US); **B01D 2255/1026** (2013.01 - EP KR US); **B01D 2255/1028** (2013.01 - EP KR US); **B01D 2255/104** (2013.01 - EP KR US); **B01D 2255/106** (2013.01 - EP KR US); **B01D 2255/2063** (2013.01 - EP KR US); **B01D 2255/2065** (2013.01 - EP KR US); **B01D 2255/20715** (2013.01 - EP KR US); **B01D 2255/20746** (2013.01 - EP KR US); **B01D 2255/20753** (2013.01 - EP KR US); **B01D 2255/20761** (2013.01 - EP KR US); **B01D 2255/2092** (2013.01 - EP KR US); **B01D 2255/9202** (2013.01 - EP KR US); **B01D 2258/012** (2013.01 - EP KR US); **B01D 2258/014** (2013.01 - EP KR US); **C04B 2111/0081** (2013.01 - EP KR US); **Y02A 50/20** (2018.01 - EP KR US); **Y02T 10/12** (2013.01 - EP US)

C-Set (source: EP US)  
**C04B 38/06 + C04B 35/00 + C04B 38/0006 + C04B 38/0051 + C04B 38/0074 + C04B 38/0096**

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2976823 A1 20121228; FR 2976823 B1 20150327**; BR 112013033508 A2 20170124; CA 2838360 A1 20130103; CN 103702759 A 20140402; EP 2723496 A1 20140430; JP 2014518152 A 20140728; KR 20140082632 A 20140702; MX 2013015110 A 20140414; RU 2014102340 A 20150810; US 2014130482 A1 20140515; WO 2013000683 A1 20130103

DOCDB simple family (application)  
**FR 1155688 A 20110627**; BR 112013033508 A 20120608; CA 2838360 A 20120608; CN 201280031118 A 20120608; EP 12730415 A 20120608; EP 2012060904 W 20120608; JP 2014517561 A 20120608; KR 20147001791 A 20120608; MX 2013015110 A 20120608; RU 2014102340 A 20120608; US 201214128483 A 20120608