

Title (en)  
EXHAUST PURIFICATION SYSTEM OF INTERNAL COMBUSTION ENGINE

Title (de)  
ABGASREINIGUNGSSYSTEM EINES VERBRENNUNGSMOTORS

Title (fr)  
SYSTÈME DE PURIFICATION DES GAZ D'ÉCHAPPEMENT D'UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 2850293 A1 20150325 (EN)**

Application  
**EP 13773416 A 20130905**

Priority  
• JP 2012195420 A 20120905  
• JP 2013074606 W 20130905

Abstract (en)  
[origin: WO2014038724A1] A particulate filter (24) for trapping particulate filter which is contained in exhaust gas is arranged in an engine exhaust passage. The particulate filter is provided with exhaust gas inflow passages and exhaust gas outflow passages which are alternately arranged via porous partition walls. Movement promoting control is performed to promote movement of the ash which deposits on the inner circumferences of the exhaust gas inflow passages to the rear parts of the exhaust gas inflow passages. The pressure loss of the particulate filter is detected. When the detected pressure loss is larger than a predetermined upper limit value, PM removal control is performed to remove the particulate matter from the particulate filter.

IPC 8 full level  
**F01N 3/022** (2006.01); **F01N 3/023** (2006.01); **F01N 3/025** (2006.01); **F01N 3/029** (2006.01); **F01N 3/20** (2006.01); **F01N 3/28** (2006.01); **F01N 9/00** (2006.01); **F01N 13/02** (2010.01)

CPC (source: EP US)  
**F01N 3/0222** (2013.01 - EP US); **F01N 3/023** (2013.01 - EP US); **F01N 3/0232** (2013.01 - EP US); **F01N 3/0253** (2013.01 - EP US); **F01N 3/029** (2013.01 - EP US); **F01N 3/0293** (2013.01 - US); **F01N 3/04** (2013.01 - US); **F01N 3/206** (2013.01 - EP US); **F01N 3/2066** (2013.01 - US); **F01N 3/2882** (2013.01 - EP US); **F01N 9/002** (2013.01 - EP US); **F01N 13/0097** (2014.06 - EP US); **F01N 13/02** (2013.01 - EP US); **F01N 2240/22** (2013.01 - EP US); **F01N 2290/08** (2013.01 - EP US); **F01N 2290/10** (2013.01 - EP US); **F01N 2430/04** (2013.01 - EP US); **F01N 2560/08** (2013.01 - EP US); **F01N 2560/14** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014038724A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2014038724 A1 20140313**; BR 112014031552 A2 20170627; CN 104395570 A 20150304; EP 2850293 A1 20150325; IN 10689DEN2014 A 20150828; JP 2014051896 A 20140320; JP 5798533 B2 20151021; RU 2014151055 A 20161027; US 2015204224 A1 20150723

DOCDB simple family (application)  
**JP 2013074606 W 20130905**; BR 112014031552 A 20130905; CN 201380031939 A 20130905; EP 13773416 A 20130905; IN 10689DEN2014 A 20141215; JP 2012195420 A 20120905; RU 2014151055 A 20130905; US 201314408410 A 20130905