

Title (en)  
TWO-SECTIONED BACK-PRESSURED CATALYTIC CONVERTER

Title (de)  
ZWEITEILIGER RÜCKDRUCKKATALYSATOR

Title (fr)  
CONVERTISSEUR CATALYTIQUE DE CONTRE-PRESSION À DEUX SECTIONS

Publication  
**EP 3489477 A1 20190529 (EN)**

Application  
**EP 17203064 A 20171122**

Priority  
EP 17203064 A 20171122

Abstract (en)  
A two-sectioned back-pressured catalytic converter has a main body (10), a tail tube (40), and a honeycomb carrier (20). The honeycomb carrier (20) has a first section (21) relatively proximal to the intake opening and a second section (22) relatively proximal to the exhaust opening. The density of the holes of the first section (21) is higher than that of the second section (22). Therefore, waste gas has sufficient space for expansion when passing through the first section (21), and thus the pressure and the temperature are both lowered, solving problems of the back pressure and the backward pushing. The tail tube (40) forms a baffle in the main body (10). The waste gas will hit the baffle after passing the honeycomb carrier (20) and generate turbulence which can slow down the gas and make the gas fully react with the precious metal coating.

IPC 8 full level  
**F01N 3/08** (2006.01); **F01N 3/28** (2006.01); **F01N 13/00** (2010.01)

CPC (source: EP)  
**F01N 3/08** (2013.01); **F01N 3/281** (2013.01); **F01N 13/0093** (2014.06); **F01N 13/0097** (2014.06); **F01N 2260/06** (2013.01); **F01N 2330/48** (2013.01)

Citation (search report)

- [XY] US 3785781 A 19740115 - HERVERT G, et al
- [X] JP 2002129951 A 20020509 - CALSONIC KANSEI CORP
- [Y] WO 2011089330 A1 20110728 - PEUGEOT CITROEN AUTOMOBILES SA [FR], et al
- [A] GB 2342055 A 20000405 - FORD GLOBAL TECH INC [US]
- [A] EP 1760281 A1 20070307 - PEUGEOT CITROEN AUTOMOBILES SA [FR]

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)  
**EP 3489477 A1 20190529**

DOCDB simple family (application)  
**EP 17203064 A 20171122**