

Title (en)  
EXHAUST SYSTEM

Title (de)  
ABGASANLAGE

Title (fr)  
LIGNE D'ÉCHAPPEMENT

Publication  
**EP 3311009 B1 20191113 (DE)**

Application  
**EP 16726078 A 20160530**

Priority  
• DE 102015211460 A 20150622  
• EP 2016062109 W 20160530

Abstract (en)  
[origin: WO2016206915A1] The invention relates to an exhaust-gas system for a vehicle having an internal combustion engine, comprising a Helmholtz resonator (2) and two exhaust-gas lines (3) extending toward the resonator, wherein the resonator (2) has two neck openings (7) to a resonator volume (4), each neck opening (7) is coupled to one of the exhaust-gas lines (3), and the resonator (2) is tuned to damp a dominating engine order.

IPC 8 full level  
**F01N 1/02** (2006.01); **F01N 1/00** (2006.01); **F01N 1/06** (2006.01)

CPC (source: CN EP US)  
**F01N 1/00** (2013.01 - CN); **F01N 1/003** (2013.01 - EP US); **F01N 1/02** (2013.01 - CN EP US); **F01N 1/06** (2013.01 - CN EP US);  
**F01N 1/163** (2013.01 - EP US); **F01N 1/168** (2013.01 - EP US); **F01N 13/04** (2013.01 - EP US); **F01N 13/107** (2013.01 - EP US);  
**F01N 2240/36** (2013.01 - EP US); **F01N 2260/14** (2013.01 - EP US)

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)  
**DE 102015211460 A1 20161222**; CN 107429585 A 20171201; CN 107429585 B 20200609; EP 3311009 A1 20180425;  
EP 3311009 B1 20191113; US 10746065 B2 20200818; US 2018016954 A1 20180118; WO 2016206915 A1 20161229

DOCDB simple family (application)  
**DE 102015211460 A 20150622**; CN 201680013210 A 20160530; EP 16726078 A 20160530; EP 2016062109 W 20160530;  
US 201715716030 A 20170926