

Title (en)
MUFFLER

Title (de)
AUSPUFFTOPF

Title (fr)
SILENCIEUX

Publication
EP 2944783 A1 20151118 (EN)

Application
EP 13871221 A 20131218

Priority
• JP 2013003714 A 20130111
• JP 2013083960 W 20131218

Abstract (en)
Provided is a muffler having a double pipe portion formed therein in which an end portion of a first tubular member (10) is inserted into a second tubular member (20) from an end portion thereof. A leading end portion (23) of the second tubular member is joined to an outer periphery of the first tubular member. A portion that forms the double pipe portion of the second tubular member comprises a first portion (22) located closer to an end of the first tubular member, and a second portion (21) that is located closer to an end of the second tubular member and that has an enlarged diameter compared with the first portion. A resonance chamber (31) is formed between the first tubular member (10) and the second portion (21). A communication path (32) that allows communication between an exhaust flow path and the resonance chamber is formed between the first tubular member (10) and the first portion (22). A Helmholtz type resonant system is formed by the resonance chamber (31) and the communication path (32).

IPC 8 full level
F01N 1/02 (2006.01); **F01N 13/08** (2010.01); **F01N 13/18** (2010.01)

CPC (source: EP US)
F01N 1/023 (2013.01 - EP US); **F01N 1/026** (2013.01 - EP US); **F01N 2470/24** (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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2944783 A1 20151118; **EP 2944783 A4 20160831**; CA 2897138 A1 20140717; CN 104903556 A 20150909; JP 2014134180 A 20140724; JP 6162407 B2 20170712; US 2015337699 A1 20151126; WO 2014109192 A1 20140717

DOCDB simple family (application)
EP 13871221 A 20131218; CA 2897138 A 20131218; CN 201380069828 A 20131218; JP 2013003714 A 20130111; JP 2013083960 W 20131218; US 201314758730 A 20131218