

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)  
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**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

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