

Title (en)  
VACUUM PUMP VENT PIPE SILENCER AND REFRIGERATOR HAVING SAME

Title (de)  
SCHALLDÄMPFER FÜR VAKUUMPUMPENENTLÜFTUNGSROHR UND KÜHLSCHRANK DAMIT

Title (fr)  
SILENCIEUX DE TUYAU D'ÉVENT DE POMPE À VIDE ET RÉFRIGÉRATEUR LE COMPRENANT

Publication  
**EP 3726055 A1 20201021 (EN)**

Application  
**EP 18889024 A 20181207**

Priority  
• CN 201711311262 A 20171211  
• CN 2018119773 W 20181207

Abstract (en)  
A muffler comprising a hollow cavity enclosed by a first bottom surface, a second bottom surface and a side wall, the side wall connects the first bottom surface with the second bottom surface, an air inlet at one end of the hollow cavity and an air outlet at the other end of the hollow cavity; the cavity is divided into a plurality of chambers in an axial direction, the chambers comprise a first chamber adjacent to the first bottom surface, a second chamber adjacent to the second bottom surface and an intermediate chamber located between the first chamber and the second chamber, the air inlet is in gas communication with the intermediate chamber, the intermediate chamber is in gas communication with the second chamber, the first chamber is in gas communication with the second chamber, and the air outlet is in gas communication with the first chamber. The muffler further comprises a first duct, a second duct, a third duct and a fourth duct, the first duct is communicated with the air inlet and the intermediate chamber, the second duct is communicated with the intermediate chamber and the second cavity, the third duct is communicated with the first chamber and the second chamber, and the fourth duct is communicated with the first chamber and the air outlet. the first duct, the second duct, the third duct and the fourth duct are configured to be arranged in turn in an air path direction.

IPC 8 full level  
**F04B 39/00** (2006.01); **F24F 13/24** (2006.01)

CPC (source: CN EP US)  
**F01N 1/023** (2013.01 - US); **F01N 1/026** (2013.01 - US); **F01N 1/084** (2013.01 - US); **F01N 1/089** (2013.01 - US); **F04B 39/00** (2013.01 - EP); **F04B 39/0027** (2013.01 - EP); **F04B 39/0033** (2013.01 - EP); **F04B 39/0055** (2013.01 - EP); **F04B 39/0061** (2013.01 - EP US); **F04B 39/0066** (2013.01 - US); **F04B 39/0083** (2013.01 - CN EP); **F24F 13/24** (2013.01 - CN EP); **F25D 17/062** (2013.01 - US); **F01N 2490/06** (2013.01 - US); **F24F 2013/247** (2013.01 - CN EP); **F25D 2317/0681** (2013.01 - US)

Cited by  
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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)  
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DOCDB simple family (publication)  
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