

Title (en)  
Helmholtz resonance silencer

Title (de)  
Helmholtz-Resonanzdämpfer

Title (fr)  
Silencieux à résonance de Helmholtz

Publication  
**EP 2772905 A1 20140903 (EN)**

Application  
**EP 14153385 A 20140131**

Priority  
JP 2013038223 A 20130228

Abstract (en)  
The present invention provides a Helmholtz resonance silencer capable of further improving its silencing effect without deviation of its resonant frequency from the frequency of sound to be silenced. The present invention is a Helmholtz resonance silencer including: a body having a cavity part (SC) therein; and a communication hole (18a) for communication between the cavity part (SC) and an outside of the body. The communication hole (18a) has a cross-sectional profile other than a precise circle so as to increase viscous resistance generated between the vibrating air in the communication hole (18a) and the surface defining the communication hole (18a).

IPC 8 full level  
**G10K 11/172** (2006.01)

CPC (source: EP)  
**G10K 11/172** (2013.01)

Citation (applicant)  
JP 2012051397 A 20120315 - HONDA MOTOR CO LTD

Citation (search report)

- [XA] US 7690410 B2 20100406 - KAMIYAMA YOUICHI [JP], et al
- [XA] US 2010078258 A1 20100401 - TANABE YOSUKE [JP], et al
- [XA] US 6021612 A 20000208 - DUNN STANLEY E [US], et al
- [A] US 5598479 A 19970128 - DODT THOMAS [DE], et al

Cited by  
CN113763914A; CN106098051A; CN114495886A

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