

Title (en)  
LISTENING DEVICE WITH NOISE SUPPRESSION

Title (de)  
ABHÖRVORRICHTUNG MIT RAUSCHUNTERDRÜCKUNG

Title (fr)  
DISPOSITIF D'ÉCOUTE À SUPPRESSION DE BRUIT

Publication  
**EP 3340646 A1 20180627 (EN)**

Application  
**EP 16206279 A 20161222**

Priority  
EP 16206279 A 20161222

Abstract (en)  
A wearable listening device (301), such as a headset, comprising: an electro-acoustic transducer (302); a housing (303) accommodating the electro-acoustic transducer (302); and a flexible wearing support (304) attached to the housing (303) and configured to hold the housing in place on or over a wearer's at least one ear during normal use of the wearable listening device. A weight member (301) is suspended by a suspension member (302) which is attached to or integrated with the housing; wherein the suspension member (302) is configured to passively transfer vibrations from the housing (303) to the weight member (301) and to vibrate the weight member (301) to counteract at least some resonance vibrations of the housing (303).

IPC 8 full level  
**H04R 1/28** (2006.01); **H04R 1/10** (2006.01)

CPC (source: EP)  
**H04R 1/2873** (2013.01); **H04R 1/1008** (2013.01); **H04R 5/033** (2013.01)

Citation (applicant)  

- WO 0035243 A2 20000615 - UNIV SOUTHAMPTON [GB], et al
- US 8295530 B2 20121023 - GRELL AXEL [DE]
- JOAO BOAZ RAFAELY; PAULO GARDONIO CARRILHO, NOVEL ACTIVE NOISE-REDUCING HEADSET USING EARSHELL VIBRATION CONTROL, October 2002 (2002-10-01)

Citation (search report)  

- [XYI] US 2009205900 A1 20090820 - PURCELL RICKY WAYNE [US], et al
- [XYI] US 2007143907 A1 20070628 - HANSSON FREDRIK [SE], et al
- [YA] WO 9522015 A1 19950817 - TEKNA SONIC INC [US]
- [YA] EP 2012039 A2 20090107 - FINITE ELEMENTE GMBH [DE]
- [YA] US 4744547 A 19880517 - HAERTEL VOLKER [DE]
- [A] DE 2163798 A1 19730705 - MESSERSCHMITT BOELKOW BLOHM
- [A] US 2006231327 A1 20061019 - STILES ENRIQUE M [US]

Cited by  
CN113208814A; WO2021238459A1

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)  
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