

Title (en)

Hearing aid with noise cancellation and corresponding method

Title (de)

Hörgerät mit Störschallunterdrückung und entsprechendes Verfahren

Title (fr)

Prothèse auditive avec suppression du bruit et procédé correspondant

Publication

**EP 1931172 B1 20090701 (DE)**

Application

**EP 06024958 A 20061201**

Priority

EP 06024958 A 20061201

Abstract (en)

[origin: EP1931172A1] The device has a microphone (MI) recording an interference sound outside the ear, and a receiver (H) outputting a processed electrical or electromagnetic useful signal. A sound transmission function (H-vent) is vent from the microphone to the eardrum (TF). The transmission function (H-anc) of a filter (F) is formed as a function of the sound function such that the interference sound reaching the eardrum through the vent is reduced in the effect on the eardrum by a balancing sound which is generated on the basis of an interference sound signal of the microphone from the receiver. An independent claim is also included for a method for reducing an interference sound when wearing a hearing device.

IPC 8 full level

**H04R 25/00** (2006.01); **G10K 11/178** (2006.01)

CPC (source: EP US)

**G10K 11/17815** (2017.12 - EP US); **G10K 11/17821** (2017.12 - EP US); **G10K 11/1785** (2017.12 - EP US); **G10K 11/17873** (2017.12 - EP US); **G10K 11/17885** (2017.12 - EP US); **H04R 25/453** (2013.01 - EP US); **G10K 2210/1081** (2013.01 - EP US); **H04R 2460/11** (2013.01 - EP US)

Cited by

EP2282558A3; EP2229010A3; US8693717B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1931172 A1 20080611**; **EP 1931172 B1 20090701**; AT E435572 T1 20090715; DE 502006004146 D1 20090813; DK 1931172 T3 20091012; US 2008130929 A1 20080605

DOCDB simple family (application)

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