

Title (en)  
Headphone and headset

Title (de)  
Kopfhörer und Headset

Title (fr)  
Casque et casque à oreillettes

Publication  
**EP 2830324 B1 20170111 (EN)**

Application  
**EP 14177946 A 20140722**

Priority  
• EP 2013065523 W 20130723  
• EP 14177946 A 20140722

Abstract (en)  
[origin: EP2830324A1] A headphone is provided which comprises a housing with an open end and at least one defined dominant acoustic opening, an acoustically sealing earpad arranged at the open end of the housing, and at least one microphone arranged adjacent to common ear or in the vicinity of the dominant acoustical opening for detecting noise, wherein the dominant acoustic opening is arranged within a radius of 2 cm around a midpoint of the at least one microphone. The headphone or earphone also comprises an active noise compensation unit for performing an active noise compensation based on the output of the microphone and for generating a compensation signal. The headphone or earphone also comprises an electro-acoustical transducer inside the housing for reproducing the compensation signal.

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

CPC (source: EP)  
**H04R 1/1083** (2013.01); **H04R 1/1008** (2013.01); **H04R 2410/05** (2013.01); **H04R 2460/01** (2013.01)

Cited by  
CN111182402A; CN111836147A; CN113453117A; EP3982643A1; EP3279892A1; CN109565626A; US9881600B1; US11962968B2; US10477293B2; US11678104B2; EP3979663A1; WO2018022384A1

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

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