Title (en)

EARPHONE

Title (de)

OHRHÖRER

Title (fr)

ÉCOUTEUR

Publication

EP 2187654 B1 20141231 (EN)

Application

EP 07806949 A 20070907

Priority

JP 2007067517 W 20070907

Abstract (en)

[origin: EP2187654A1] An earphone in which acoustic characteristics of a reproduced sound can be adjusted by a simple constitution. Though the earphone closely contacts with the outer ear of each user, the acoustic characteristics can be adjusted. The earphone (1) has a speaker casing part (2) having a built-in speaker main body part(3) and an opening part (21) for outputting acoustic waves from the speaker main body part (3), a cylindrical acoustic control tube (4) comprising an internal structure which controls the acoustic waves outputted through the opening part (21) from the speaker main body part (3) to have predetermined acoustic characteristics, and an earplug (9) comprising a cylindrical part (91) mounted to and communicated with the acoustic control tube (4) and having an outer periphery part formed in an elastically deformable manner. The acoustic control tube (4) is fixed detachably by a fixing member (7) while the connection part (42) formed at its one end is connected with a connected part (22) formed at the opening part (21) of the speaker casing part (2). The acoustic control tube (4) can be replaced with one having desired different acoustic characteristics.

IPC 8 full level

H04R 1/10 (2006.01); **H04R 1/22** (2006.01)

CPC (source: EP)

H04R 1/1075 (2013.01); H04R 1/1016 (2013.01); H04R 1/22 (2013.01)

Citation (examination)

WO 9400089 A1 19940106 - CHANG JOSEPH SYLVESTER [AU], et al

Cited by

JP2013021590A; CN105721969A; US11343606B2; WO2016162681A1; EP3269148B1

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 07806949 A 20070907; JP 2007067517 W 20070907; JP 2009531076 A 20070907