

Title (en)  
EARPHONE

Title (de)  
KOPFHÖRER

Title (fr)  
ÉCOUTEUR

Publication  
**EP 2517475 A1 20121031 (EN)**

Application  
**EP 10807341 A 20101222**

Priority  
• GB 0922610 A 20091223  
• GB 2010052196 W 20101222

Abstract (en)  
[origin: WO2011077160A1] An earphone (1) comprises an earphone body (2), a transmission cable (3), and a loop (4). The earphone body (2) is provided with a speaker and is adapted to be worn at least partly between, or internally of, the tragus and anti-tragus in the ear. The transmission cable (3) provides for transmission of electrical signals to the speaker, and thus is connected at one end to the speaker and is adapted at the opposite end for connection to an electronic sound output of an electronic device. The loop (4) is a loop of variable length, which, when the earphone body (1) is in place, is located at least partly in the concha (C) of the wearer and engages the surface of the ear.

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

CPC (source: EP)  
**H04R 1/1016** (2013.01)

Citation (search report)  
See references of WO 2011077160A1

Citation (examination)  
• WO 2006026988 A1 20060316 - WIDEX AS [DK], et al  
• US 2009092269 A1 20090409 - NIELSEN HENRIK [DK], et al  
• US 2003067585 A1 20030410 - MILLER ERIC C [US], et al

Citation (third parties)  
Third party :  
• US 2003174853 A1 20030918 - HOWES MICHAEL [US], et al  
• US 5222151 A 19930622 - NAGAYOSHI ATSUSHI [JP], et al  
• WO 2006026988 A1 20060316 - WIDEX AS [DK], et al  
• US 2009238399 A1 20090924 - MILLER ELIZABETH [US]

Cited by  
US10659863B2

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

DOCDB simple family (publication)  
**WO 2011077160 A1 20110630**; DE 202010018637 U1 20190509; EP 2517475 A1 20121031; EP 3490268 A1 20190529;  
EP 3490268 B1 20220504; GB 0922610 D0 20100210

DOCDB simple family (application)  
**GB 2010052196 W 20101222**; DE 202010018637 U 20101222; EP 10807341 A 20101222; EP 19151523 A 20101222; GB 0922610 A 20091223