

Title (en)
Universal earpiece

Title (de)
Universelles Ohrstück

Title (fr)
Oreillete universelle

Publication
EP 1643800 A3 20080820 (DE)

Application
EP 05107980 A 20050831

Priority
DE 102004048214 A 20040930

Abstract (en)
[origin: EP1643800A2] The earpiece consists of a spring and an auditory canal grommet made of rubber, that are aligned at 60-100[deg], so as to facilitate anti-clockwise/clockwise rotational movement for accommodating in conch (D) of right/left ear of user, respectively. An independent claim is also included for acoustic device.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 1/105 (2013.01 - EP US); **H04R 1/1016** (2013.01 - EP US); **H04R 25/456** (2013.01 - EP US); **H04R 25/554** (2013.01 - EP US); **H04R 25/656** (2013.01 - EP US); **H04R 2205/041** (2013.01 - EP US); **H04R 2420/07** (2013.01 - EP US); **H04R 2499/11** (2013.01 - EP US)

Citation (search report)

- [X] DE 8814162 U1 19881229
- [X] DE 29718483 U1 19990218 - LUX WELLENHOF GABRIELE [DE]
- [DXX] EP 1377113 A2 20040102 - BRUCKHOFF APPARATEBAU GMBH [DE]
- [DXX] WO 02052890 A1 20020704 - NEXTLINK TO AS [DK], et al
- [X] WO 03075608 A1 20030912 - LOGITECH EUROP SA [CH], et al
- [X] WO 03096745 A1 20031120 - KAH JR CARL L C [US]
- [A] US 2004096077 A1 20040520 - CSENSICH PETER J [US], et al
- [A] US 2002172386 A1 20021121 - BAYER ERICH [DE]
- [A] GB 1016222 A 19660105 - NAT RES DEV

Cited by
WO2018065255A1; EP3095253A4; RU2733047C1; EP1811808A1; US10129669B2

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

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1643800 A2 20060405; EP 1643800 A3 20080820; CN 1767694 A 20060503; DE 102004048214 B3 20060614; US 2006067556 A1 20060330

DOCDB simple family (application)
EP 05107980 A 20050831; CN 200510107027 A 20050927; DE 102004048214 A 20040930; US 23609005 A 20050927