

Title (en)
Contact vibrator and hearing device using the same

Title (de)
Kontaktvibrator und Hörhilfegerät damit

Title (fr)
Vibreur de contact et appareil auditif l'utilisant

Publication
EP 1968347 A3 20111109 (EN)

Application
EP 08250706 A 20080229

Priority
• JP 2007052186 A 20070302
• JP 2008039517 A 20080221

Abstract (en)
[origin: EP1968347A2] A contact vibrator 1 comprises a vibrator 5 for converting an electric signal to a mechanical vibration, a vibration transmitting section 6 for transmitting the mechanical vibration from the vibrator 5 to an eardrum 31, and a plug for transmitting the electric signal to the vibrator 5. The contact vibrator 1 is provided with a position adjusting means for adjusting a position of the vibration transmitting section 6 in the longitudinal direction by adjusting the distance between the vibrator 5 and the plug 7. An in-the-ear hearing aid 3 comprises such a contact vibrator 1, a receptacle 12 into which the plug 7 is fitted, a shell 2 for fixedly securing the receptacle to the inside thereof, an electric circuit section 23 for providing the receptacle 12 with a hearing-processed electric signal, and a microphone 21 for imparting an acoustic signal converted to an electric signal to the electric circuit section 23, wherein, when the plug 7 is fitted into the receptacle 12, both the plug 7 and the receptacle 12 are electrically connected with each other and a tip 11 of the vibration transmitting section 6 is adapted to come into contact with the eardrum 31 or an ear ossicle.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/606 (2013.01 - EP US); **H04R 25/652** (2013.01 - EP US)

Citation (search report)
• [XA] GB 392625 A 19330525 - ANTON VON SUCHORZYNSKI
• [XA] DE 592422 C 19340208 - ANTON VON SUCHORZYNSKI
• [A] US 3764748 A 19731009 - BRANCH J, et al
• [A] EP 0806884 A1 19971112 - IMPLEX GMBH [DE]

Cited by
CN106792406A; US11930325B2; WO2010133704A3; WO2020198334A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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