

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 A2 20080910 (EN)

Application

EP 08250706 A 20080229

Priority

- JP 2007052186 A 20070302
- JP 2008039517 A 20080221

Abstract (en)

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 (applicant)

- GB 392625 A 19330525 - ANTON VON SUCHORZYNNSKI
- DE 592422 C 19340208 - ANTON VON SUCHORZYNNSKI

Citation (examination)

- WO 0150815 A1 20010712 - INSONUS MEDICAL INC [US]
- US 6940989 B1 20050906 - SHENNIB ADNAN [US], et al
- US 6137889 A 20001024 - SHENNIB ADNAN [US], et al

Cited by

CN106792406A; US11930325B2; WO2010133704A3; WO2020198334A1

Designated contracting state (EPC)

DE

Designated extension state (EPC)

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DOCDB simple family (publication)

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