

Title (en)

SET AND METHOD FOR PRODUCING A HEARING AID AND HEARING AID PRODUCED ACCORDING TO THIS METHOD

Title (de)

SET UND VERFAHREN FÜR DIE HERSTELLUNG EINES HÖRGERÄTES SOWIE NACH DEM VERFAHREN HERGESTELLTES HÖRGERÄT

Title (fr)

ENSEMBLE ET PROCEDE POUR PRODUIRE UNE PROTHESE AUDITIVE ET PROTHESE AUDITIVE PRODUITE SELON LEDIT PROCEDE

Publication

EP 1563712 A1 20050817 (DE)

Application

EP 03810932 A 20030926

Priority

- CH 0300642 W 20030926
- CH 19072002 A 20021113

Abstract (en)

[origin: WO2004045245A1] The invention relates to the production of a hearing aid comprising a shaped body that is adapted to an individual auditory canal. To this end, a casting cavity is created from a number of elements and this casting cavity is filled while inside the auditory canal. After the casting compound cures, said elements, with the exception of one, are removed and replaced by an electronics module (or a module having another function). The elements, which can be joined to one another by snap catches, consist of a central casting space element (1), an outer casting space element (2) and of a canal element (3). The central casting space element (1), which remains on the hearing aid, comprises an outer and an inner ring (1.2 and 1.3) as well as a tubular and extendible membrane (1.1), which extends between both rings and which radially delimits the casting cavity (5) with regard to the exterior. The outer casting space element (2) delimits the casting cavity on the outer face, is matched to the outer ring (1.2) and comprises a casting opening (2.1). After casting, said outer casting space element is replaced by the electronics module. The canal element (3) serves to hold the loudspeaker canal open, is at least partially flexible, can be joined in a fixed or detachable manner to the outer casting space element (2) and is matched to the inner ring (1.3) of the central casting space element (2) in such a manner that it can essentially close the opening of the inner ring (3.1) and can limit the axial mobility of the inner ring (1.3). The shape of the electronics module, which has a loudspeaker (4.4), is adapted to the shape of the outer casting space element (2) in such a manner that, at its location, it can be snapped into the shaped body or into the outer ring (1.2), and at least the loudspeaker output is positioned inside the loudspeaker canal. The hearing aid is characterized by the simplicity of its production.

IPC 1-7

H04R 25/00; H04R 25/02; A61F 11/08

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/60 (2013.01 - EP US); **H04R 25/65** (2013.01 - EP US); **H04R 25/658** (2013.01 - EP US); **H04R 25/652** (2013.01 - EP US)

Citation (search report)

See references of WO 2004045245A1

Cited by

DE102007055384A1; EP2063670A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004045245 A1 20040527; AT E322140 T1 20060415; AU 2003264221 A1 20040603; AU 2003264221 B2 20090423; CN 1701633 A 20051123; CN 1701633 B 20101208; DE 50302848 D1 20060518; DK 1563712 T3 20060724; EP 1563712 A1 20050817; EP 1563712 B1 20060329; JP 2006506835 A 20060223; JP 4190499 B2 20081203; US 2006104467 A1 20060518; US 7564987 B2 20090721

DOCDB simple family (application)

CH 0300642 W 20030926; AT 03810932 T 20030926; AU 2003264221 A 20030926; CN 03825077 A 20030926; DE 50302848 T 20030926; DK 03810932 T 20030926; EP 03810932 A 20030926; JP 2004550596 A 20030926; US 53435005 A 20051014