

Title (en)

Connecting element for a hook of a hearing aid

Title (de)

Verbindungselement für einen Tragehaken eines Hörgeräts

Title (fr)

Élément de liaison pour un crochet d'un appareil auditif

Publication

EP 1988744 A1 20081105 (DE)

Application

EP 08103675 A 20080423

Priority

DE 102007020340 A 20070430

Abstract (en)

The mechanical connector (10) for the carrying hook, and the hearing aid, are made by powder injection molding, using a metal or ceramic powder. The connector and arm (18) to carry components, are made from the same material. They are made in one piece, as an integral component (16). The hearing aid casing is of multi-component construction. The mechanical connector and a section of the casing are made from the same material. The connector has a holder for a flexible tube connecting to a receiver, this comprises a pipe tail connector with ribs, or a self-cutting thread. The powder used in this method can be sintered. It is made of titanium or a an alloy. Alternatively, it is a ceramic powder, especially zirconium dioxide. An independent claim IS INCLUDED FOR the corresponding method of manufacture.

Abstract (de)

Zum Anschließen eines Hörgerätes an einen Tragehaken wird ein Verbindungselement eingesetzt, das hohen Anforderungen im Hinblick auf seine Genauigkeit und seine Stabilität gerecht werden muss. Um dies zu gewährleisten wird das Verbindungselement als Pulverspritzgussteil ausgeführt, insbesondere als Keramikspritzgussteil oder als Metallteil, das in einem Metal-Injektion-Molding-Prozess hergestellt wird.

IPC 8 full level

H04R 25/00 (2006.01); **B22F 3/22** (2006.01); **C04B 35/48** (2006.01)

CPC (source: EP US)

B22F 3/225 (2013.01 - EP US); **B22F 5/00** (2013.01 - EP US); **H04R 25/65** (2013.01 - EP US); **H04R 25/658** (2013.01 - EP US); **H04R 2225/0213** (2019.04 - EP US)

Citation (applicant)

- WO 2006125434 A1 20061130 - WIDEX AS [DK], et al
- DE 10333293 A1 20050303 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- EP 1570804 A1 20050907 - STRAUMANN HOLDING AG [CH]
- MITCHELL N. GROSS: "What Designers should know about Metal Injection Technology", MEDICAL DESIGN, 1 April 2006 (2006-04-01)

Citation (search report)

- [Y] WO 2006125434 A1 20061130 - WIDEX AS [DK], et al
- [Y] DE 10333293 A1 20050303 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [XY] EP 1570804 A1 20050907 - STRAUMANN HOLDING AG [CH]
- [XY] DE 19935276 A1 20000210 - FRAUNHOFER GES FORSCHUNG [DE], et al
- [Y] DE 3720591 A1 19880107 - OTICON AS [DK]
- [A] DE 4327634 C1 19940630 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [XY] MITCHELL N. GROSS: "What Designers should know about Metal Injection Technology", MEDICAL DESIGN, 1 April 2006 (2006-04-01), XP002490908, Retrieved from the Internet <URL:http://medicaldesign.com/molding/designers_know_metal/> [retrieved on 20080731] & FLOMET LLC: "MIM overview", 18 December 2006 (2006-12-18), XP002490909, Retrieved from the Internet <URL:http://web.archive.org/web/20061218164403/http://www.flomet.com/MIM.asp> [retrieved on 20080731]

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WO2011033135A3; WO2011033135A2; US9774964B2

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

DOCDB simple family (publication)

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DOCDB simple family (application)

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