

Title (en)
CONNECTOR FOR A RIC-BTE HEARING INSTRUMENT AND RIC-BTE HEARING INSTRUMENT

Title (de)
KONNEKTOR FÜR RIC-BTE HÖRGERÄT UND RIC-BTE HÖRGERÄT

Title (fr)
CONNECTEUR POUR APPAREIL AUDITIF RIC-BTE ET APPAREIL AUDITIF RIC-BTE

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Abstract (en)
[origin: WO2011101041A1] The invention relates to a connector for a hearing instrument, in particular a receiver-in-canal behind-the-ear hearing aid. The aim of the invention is to specify a small and visually inconspicuous connector for a hearing instrument, which connector should be as invisible as possible on the carried hearing instrument, and which connector allows a microphone arrangement favorable for directionality and sound pick-up when used on a behind-the-ear hearing aid. For this purpose, a connector (24, 44, 101, 108, 121, 134) on an earpiece tube (25, 35, 45, 102, 114, 133) is specified, wherein a longitudinal direction is defined by the earpiece tube (25, 35, 45, 102, 114, 133) in the area of the connector (24, 44, 101, 108, 121, 134), and wherein the connector (24, 44, 101, 108, 121, 134) is connected by insertion into a connector receptacle (29, 39, 111, 119, 120) of a hearing instrument transversely to the longitudinal direction. In addition, a hearing instrument is specified, in particular a receiver-in-canal behind-the-ear hearing aid, comprising a laterally arranged connector receptacle (29, 39, 111, 119, 120), into which a connector (24, 44, 101, 108, 121, 134) is inserted transversely to the longitudinal direction. Because the connector is inserted transversely to the longitudinal direction, the connector can be arranged laterally on the housing. Because of the lateral arrangement, the front end face of the housing can be smaller and thus the housing overall can be flatter. In addition, a microphone can be arranged on the end face instead of the connector, which is advantageous to sound pick-up and directionality.

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Citation (opposition)
Opponent : GN Hearing A/S and Oticon A/S
• EP 2540098 A1 20130102 - SIEMENS MEDICAL INSTR PTE LTD [SG]
• US 2007064967 A1 20070322 - FEELEY JIM [US], et al
• WO 2008095505 A1 20080814 - WIDEX AS [DK], et al
• EP 2040343 A1 20090325 - STARKEY LAB INC [US]
• US 2007081686 A1 20070412 - SLUPPKE KLAUS-DIETER [DE]
• US 7016512 B1 20060321 - FEELEY JIM [US], et al
• JP H1198599 A 19990409 - RION CO

Cited by
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