

Title (en)
HEARING AID

Title (de)
HÖRHILFSGERÄT

Title (fr)
PROTHESE AUDITIVE

Publication
EP 0793897 A1 19970910 (DE)

Application
EP 95921771 A 19950529

Priority
• DE 4441996 A 19941126
• EP 9502033 W 19950529

Abstract (en)
[origin: DE4441996A1] Described is a hearing aid with a microphone (1), a signal-transmission unit (2, 3) for forming or otherwise processing the signal, an output amplifier (4) to which an earphone (10) is connected, and a battery as the power supply. The output amplifier (4) is designed essentially as a SIGMA - DELTA amplifier and is connected to a pulse generator (8) which produces a high-frequency pulsed signal in the 1 MHz region as well as a series-connected low-pass filter (15). The input signal to the signal converter is a representation, produced by signal processing, of the low-frequency input signal to the hearing aid, this signal being converted in the signal converter into a signal which can have only two possible values. The output signal (14) thus appears, after passing through the low-pass filter, essentially as an amplified copy of the low-frequency input signal.

IPC 1-7
H04R 25/00

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/505 (2013.01 - EP US)

Cited by
DE102005006858A1; WO2019211187A1; EP1694095A2; WO2022200436A1

Designated contracting state (EPC)
AT CH DE DK IT LI NL

DOCDB simple family (publication)
US 5878146 A 19990302; AT E166199 T1 19980515; AU 2671495 A 19960619; AU 691001 B2 19980507; CA 2204757 A1 19960606; CA 2204757 C 19990803; DE 4441996 A1 19960530; DE 59502189 D1 19980618; DK 0793897 T3 19990215; EP 0793897 A1 19970910; EP 0793897 B1 19980513; JP 3274469 B2 20020415; JP H10504155 A 19980414; WO 9617493 A1 19960606

DOCDB simple family (application)
US 83626097 A 19970509; AT 95921771 T 19950529; AU 2671495 A 19950529; CA 2204757 A 19950529; DE 4441996 A 19941126; DE 59502189 T 19950529; DK 95921771 T 19950529; EP 9502033 W 19950529; EP 95921771 A 19950529; JP 50832196 A 19950529