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(54) Title: TWO PART HEARING AID WITH DATABUS CONNECTION

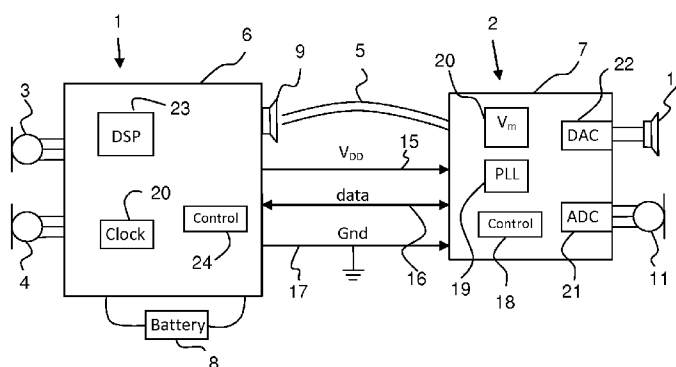


Figure 1

(57) **Abstract:** The invention concerns a two part hearing aid comprising a base part (1) to be arranged outside the ear canal of a hearing aid user, said base part comprising at least one microphone (3, 4), signal processing means (23) and power supply means (8). The hearing aid also comprise an ear plug part (2) to be arranged in the ear canal of a hearing aid user, said ear plug part comprising acoustic transmitting means (5, 10) for transmitting sound into the ear canal, said ear plug part (2) comprising an ear canal microphone (11) for transforming an acoustic signal in the ear canal into an electric signal, and the ear plug part further comprising an electronic module (7) connected to said ear canal microphone (11). The hearing aid further comprise an elongated member (40) connecting said ear plug part (2) with said base part (1), said elongated member comprise electrical wires (15, 17, 42, 43) prepared for providing power supply to the ear plug part (2). The signal from the ear canal microphone (11) is transferred to the signal processing means (23 in the base part (1) through a serial databus connected through a data line (16) arranged with said elongated member (40).