

Title (en)
Electronic battery-powered hearing instrument, and method for operating such a hearing instrument

Title (de)
Elektronisches batteriebetriebenes Hörgerät und Verfahren zum Betreiben eines solchen Hörgeräts

Title (fr)
Prothèse auditive électronique alimentée par batterie et procédé d'utilisation d'une telle prothèse auditive

Publication
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Application
EP 04405616 A 20041001

Priority
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Abstract (en)
An electronic battery-powered hearing instrument (10) comprises a first power supply terminal (1) and a second power supply terminal (2) arranged to contact a battery (3), a rectifier circuit (6) for providing a positive supply voltage (Up) and a negative supply voltage (Un) regardless of a polarity of the battery (3) relative to the first and second power supply terminal (2), primary function means (7) arranged to provide at least one drive signal (Ud) to a drive circuit (20) for driving an electroacoustic conversion means (13) by controlling electrical valve means (14, 15, 16, 17). <??>The drive circuit (20) is electrically connected to the first power supply terminal (1) and to the second power supply terminal (2), and the electrical valve means (14, 15, 16, 17) are polarity-independent, that is, they are able to operate regardless of the polarity of the voltage applied to their terminals. <??>As a result, the current path from the battery (3) to the electroacoustic conversion means (13) and back again comprises at the most two electrical valve means (14, 15, 16, 17), e.g. transistors, minimising voltage drop and power loss. <IMAGE>

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