

Title (en)

APPARATUS FOR COMPENSATING HEARING DEFICIENCIES

Publication

EP 0071845 B1 19851127 (DE)

Application

EP 82106683 A 19820723

Priority

DE 3131193 A 19810806

Abstract (en)

[origin: US4508940A] An exemplary embodiment includes a plurality of parallel signal channels coupled with a signal input transducer, such as a microphone or induction coil. Each of the signal channels includes a respective bandpass filter for selection of a different frequency band, a controlled-gain amplifier, controlled by a volume control potentiometer, circuits for non-linear signal processing, and a bandpass filter for the reduction of distortion components caused by the non-linear processing circuits. A summing amplifier combines the signal components from all channels and is connected via an amplifier to an output signal transducer. Space requirements and power consumption are reduced in such a multi-channel processing arrangement by implementing all of the filters as sampled-data analog circuits. As a result hearing aids are provided which can be worn on the head, e.g. behind the ear.

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H04R 25/00

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP0674463A1; EP0535425A3; DE4441755C1; FR2566658A1; DE19525944A1; DE19525944C2; EP0389825A1; EP0250679A3; EP0252205A3; US4622440A; WO8601671A1

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