received, and, in the affirmative, the controller maintaining the listening mode for a predetermined time period.

4. The method according to claim 3, wherein athe step of reentering the first phase of the control sequence is delayed for a predetermined period, calculated from the moment the controller determines that the radio receiver is no longer receiving a radio signal.

5. The method according to claim 4, wherein the decoder selects the first bit stream as the control signal for the H-bridge output converter when the radio receiver is in the listening mode, and selects the second bit stream as the control signal for the H-bridge output converter when the radio receiver is in the idle mode.

6. A hearing aid having at least one input transducer, an analog-to-digital converter, a digital signal processor, a sigma-delta modulator, a first quantizing block, a second quantizing block, a decoder, an H-bridge output converter, an acoustic output transducer, a timer, a controller and a radio receiver, the radio receiver having an idle mode of operation and a listening mode of operation, the sigma-delta modulator being adapted for generating a driving signal based on an output signal from the digital signal processor, the first quantizing block being adapted for generating a first bit stream and the second quantizing block being adapted for generating a second bit stream based on the sigma-delta modulator output signal, the first bit stream incorporating two discrete levels and the second bit stream incorporating three discrete levels, the controller being adapted for enabling the decoder to select one bit stream among the first and the second bit streams and for controlling the operating mode of the radio receiver, wherein said controller is configured to make the decoder select the first bit stream whenever the radio receiver is in the listening mode, and make the decoder select the second bit stream whenever the radio receiver is in the idle mode.

7. The hearing aid according to claim 6, wherein the radio receiver has means for indicating that reception of a radio signal is in progress.