

A hearing aid according to a third aspect of the invention has a signal processor processing an electric input signal according to audio processing parameters of the hearing aid. The hearing aid includes a short range data transceiver for communication with a personal communication device via a short range data communication link, and for receiving a notification when an auxiliary classifier component detects a change of the environment or use of the personal communication device, a signal processor processing an electric input signal according to audio processing parameters of the hearing aid, a signal processing sub-system with at least two modes of operation, and said sub-system being adapted for applying respective sets of audio processing parameters for each of said at least two modes of operation, a program selector component having a classifier analyzing the electric input signal and classifying an auditory environment of the hearing aid, where the program selector component being adapted for applying automatically selecting one of said at least two modes of operation for the signal processing sub-system according to the classifiers classification and the notification received from the personal communication device.

In a fourth aspect of the invention, a computer-readable storage medium having computer-executable instructions, which when executed in a personal communication device monitor the use of said personal communication device, provide a notification when deeming environment or use of the personal communication device to change, and transmit the notification to a hearing aid via a short range data communication link.

In a fifth aspect of the invention, there is provided a personal communication device having a short range data transceiver for providing a short range data communication link for communication with a hearing aid, and a wireless receiver for communication with the internet, said personal communication device including an auxiliary classifier component monitoring the use of said personal communication device, generating a notification when detecting a change of environment or use, and transmitting the notification to a programs selector of said hearing aid via said short range data communication link, wherein the auxiliary classifier component is adapted to access reverberation characteristics for a location and to extract relevant parameters and transfer these parameters to the programs selector via said short range data communication link.

The invention will be described in further detail with reference to preferred aspects and the accompanying drawing, in which:

5     fig. 1 illustrates schematically a hearing aid system according to an embodiment of the invention;

fig. 2 shows four categories of an audio signal observed in a hearing aid – illustrated as amplitude versus time;

10     fig. 3 illustrates program selection according to the first aspect of the invention;