

Title (en)
SYSTEM AND METHOD FOR PROVIDING HEARING ASSISTANCE

Title (de)
SYSTEM UND VERFAHREN ZUR BEREITSTELLUNG VON HÖRHILFE

Title (fr)
SYSTÈME ET PROCÉDÉ DE FOURNITURE D'ASSISTANCE AUDITIVE

Publication
EP 4344252 A1 20240327 (EN)

Application
EP 22197088 A 20220922

Priority
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Abstract (en)
There is provided a system for providing hearing assistance to a user (10), comprising a streaming device (14) configured to receive an audio source signal as a non-acoustic first audio signal from an audio source device (12), to apply, by a delay application unit (26, 26A, 26B) of the streaming device, a compensation delay provided by a delay control unit (52, 54, 55) of the streaming device to the received first audio signal and to wirelessly transmit, via a wireless interface (28) of the streaming device, the delayed first audio signal (27), as a wireless audio stream (30); and an audio listening device (16) including a microphone arrangement (42) for receiving the audio source signal as an acoustic stream from the audio source device and capturing a second audio signal (38) from the acoustic stream; a wireless interface (32) configured to receive the wireless audio stream containing the first audio signal from the streaming device and to transmit a reference signal (46) obtained from the second audio signal to the streaming device; and an output transducer (36) for stimulating the user's hearing according to the first audio signal received from the wireless audio stream. The delay control unit is configured to determine the compensation delay based on the first audio signal received from the audio source device and the reference signal received from the audio listening device in a manner so as to enhance synchronicity between the stimulation of the user's hearing by the acoustic stream and the stimulation of the user's hearing by the output transducer.

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CPC (source: EP)
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Citation (applicant)

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