

Title (en)
METHOD, DEVICE, HEADPHONES AND COMPUTER PROGRAM FOR ACTIVELY SUPPRESSING THE OCCLUSION EFFECT DURING THE PLAYBACK OF AUDIO SIGNALS

Title (de)
VERFAHREN, VORRICHTUNG, KOPFHÖRER UND COMPUTERPROGRAMM ZUR AKTIVEN UNTERDRÜCKUNG DES OKKLUSIONSEFFEKTES BEI DER WIEDERGABE VON AUDIOSIGNALEN

Title (fr)
PROCÉDÉ, DISPOSITIF, CASQUE D'ÉCOUTE ET PROGRAMME INFORMATIQUE POUR SUPPRIMER ACTIVEMENT L'EFFET D'OCCLUSION PENDANT LA LECTURE DE SIGNAUX AUDIO

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Application
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Abstract (en)
[origin: WO2021239864A1] In the method according to the invention for actively suppressing the occlusion effect during the playback of audio signals by means of headphones (10) or a hearing aid, a sound signal occurring from outside is captured (20) by means of at least one outer microphone (11) of the headphones or of the hearing aid. A voice signal is captured (21) by means of at least one additional microphone (12, 17). The dry component of the captured voice signal is estimated (22), the dry component of the captured voice signal being the component of the captured voice signal without reverberation caused by the surrounding space and without ambient noises. By means of a filter, a voice component is extracted from the outer sound captured using the at least one outer microphone. Filter coefficients of the filter are determined (23) on the basis of the estimated dry component of the captured voice signal, or the estimated dry component of the captured voice signal is filtered such that a voice component having spaciousness comparable to that of the voice component at the outer microphones is produced (23). The extracted or produced voice component is output (24) by means of a loudspeaker of the headphones or of the hearing aid.

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