

Title (en)
AUDIO HEADSET WITH NOISE-REDUCTION

Title (de)
KOPFHÖRER MIT GERÄUSCHDÄMPFUNG

Title (fr)
CASQUE AUDIO À RÉDUCTEUR DE BRUIT

Publication
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Application
EP 21200269 A 20210930

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Abstract (en)
[origin: CN114268869A] The invention relates to an audio earphone with a noise reduction device. The earphone (10) comprises:-a transducer (16); -an anti-noise processing circuit (30, 40) comprising:-a microphone (31, 41); -an anti-noise processing filter (34, 44) comprising, in series:-a stabilization filter (34A, 44A), the transfer function of which is substantially equal to the inverse of the transfer function of the processed secondary path, and-a noise cancellation filter (34B, 44B), the transfer function of which is a noise cancellation transfer function. A secondary path is formed between the transducer (16) and the tympanic membrane, and the transfer function of the processed secondary path is a transfer function of the secondary path that is affected by transfer functions of components that ensure processing other than the processing filters (34, 44).

Abstract (fr)
Le casque (10) comporte :- un transducteur (16) (12) ; - une chaîne de traitement anti-bruit (30, 40) comportant :- un microphone (31, 41) ; - un filtre de traitement anti-bruit (34, 44) qui comporte en série :- un filtre de stabilisation (34A, 44A) dont la fonction de transfert est égale sensiblement à l'inverse de la fonction de transfert du chemin secondaire traité, et- un filtre d'annulation de bruit (34B, 44B) dont la fonction de transfert est une fonction de transfert d'annulation du bruit. Le chemin secondaire est formé entre le transducteur (16) et le tympan, et la fonction de transfert du chemin secondaire traité est la fonction de transfert du chemin secondaire affectée des fonctions de transfert des composants assurant le traitement, à l'exception du filtre de traitement (34, 44).

IPC 8 full level
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Citation (search report)
• [A] EP 2830324 A1 20150128 - SENNHEISER ELECTRONIC [DE]
• [A] US 2010274369 A1 20101028 - KANISHIMA YASUHIRO [JP], et al
• [A] EP 1923864 A2 20080521 - SONY CORP [JP]
• [A] US 2009080670 A1 20090326 - SOLBECK JASON [US], et al

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