

Title (en)  
IMPROVED AUDIO HEADPHONES DEVICE

Title (de)  
VERBESSERTE AUDIO-KOPFHÖRERVORRICHTUNG

Title (fr)  
DISPOSITIF À CASQUE AUDIO, PERFECTIONNÉ

Publication  
**EP 3542545 A1 20190925 (FR)**

Application  
**EP 17808108 A 20171120**

Priority  
• FR 1661324 A 20161121  
• FR 2017053183 W 20171120

Abstract (en)  
[origin: WO2018091856A1] The invention relates to a data processing for sound reproduction on a sound reproduction device (DIS), of the headphones or earpiece type, that can be worn by a user in an environment (ENV). The device comprises at least one loudspeaker (HP), at least one microphone (MIC) and a connection to a processing circuit comprising: - an input interface (IN) for receiving signals from at least the microphone, - a processing unit (PROC, MEM) for reading at least an audio content to be reproduced on the loudspeaker, and - an output interface (OUT) for delivering at least the audio signals to be reproduced by the loudspeaker. The processing unit is designed for: a) analysing signals coming from the microphone in order to identify sounds emitted by the environment and corresponding to predetermined target sound classes, b) selecting at least one sound identified according to a user preference criterion, and c) constructing said audio signals to be reproduced by the loudspeaker, by a mix chosen between the audio content and the selected sound.

IPC 8 full level  
**H04R 1/10** (2006.01)

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**H04R 1/08** (2013.01 - US); **H04R 1/1083** (2013.01 - EP US); **H04R 1/1091** (2013.01 - US); **H04R 1/2803** (2013.01 - US);  
**H04R 2410/05** (2013.01 - US); **H04R 2420/01** (2013.01 - EP US); **H04R 2460/01** (2013.01 - EP US); **H04S 2400/13** (2013.01 - EP);  
**H04S 2420/01** (2013.01 - EP)

Citation (search report)  
See references of WO 2018091856A1

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

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**FR 2017053183 W 20171120**; EP 17808108 A 20171120; FR 1661324 A 20161121; TW 106140244 A 20171121; US 201716462691 A 20171120