

Title (en)

AN AUTOMATIC MUTE SYSTEM AND A METHOD THEREOF FOR HEADPHONE

Title (de)

AUTOMATISCHES STUMMSCHALTUNGSSYSTEM UND VERFAHREN FÜR KOPFHÖRER

Title (fr)

SYSTÈME DE SILENCIEUX AUTOMATIQUE ET PROCÉDÉ ASSOCIÉ POUR CASQUE D'ÉCOUTE

Publication

EP 3393138 A1 20181024 (EN)

Application

EP 17167106 A 20170419

Priority

EP 17167106 A 20170419

Abstract (en)

The present invention refers to an automatic mute system for earphone. The automatic mute system comprises an audio source (1), an amplifier unit (2), a buffer unit (3), at least one earpiece (5) and a comparator (4). The system can detect the availability of backward harmonics (10) due to reflected signal from the ear canal and mute the audio source (1) if they are not available. The amplifier unit (2) is provided for amplifying the audio signal from the audio source (1). The buffer unit (3) is provided in between the amplifier and the earpiece (5) for generating buffered audio signal. The backward harmonics (10) are generated from reflected audio signals from the ear canal and obtained by the earpiece (5). The comparator (4) is provided for detecting backward harmonics (10) by means of input and output buffered audio signal. The comparator (4) can generate a mute signal (7) for turning off the amplifier unit (2) when the backward harmonics (10) is not present.

IPC 8 full level

H04R 1/10 (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP)

H04R 3/00 (2013.01); **H04R 1/1041** (2013.01); **H04R 25/305** (2013.01); **H04R 2400/01** (2013.01); **H04R 2430/01** (2013.01); **H04R 2460/03** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3393138 A1 20181024

DOCDB simple family (application)

EP 17167106 A 20170419