

Title (en)

A METHOD OF MODIFYING AUDIO SIGNAL FREQUENCY AND SYSTEM FOR MODIFYING AUDIO SIGNAL FREQUENCY

Title (de)

VERFAHREN ZUR MODIFIZIERUNG EINER AUDIOSIGNALFREQUENZ UND SYSTEM ZUR MODIFIZIERUNG EINER AUDIOSIGNALFREQUENZ

Title (fr)

PROCÉDÉ ET SYSTÈME DE MODIFICATION DE LA FRÉQUENCE D'UN SIGNAL AUDIO

Publication

**EP 3148215 A1 20170329 (EN)**

Application

**EP 15460077 A 20150923**

Priority

EP 15460077 A 20150923

Abstract (en)

A method of modifying the sound signal frequency is characterized by that after acquiring a sample audio signal (SP) from the electronic device (UE) two, preferably three copies are formed wherein the first copy of the audio signal sample (S1) is analyzed by genre, a second copy of the audio signal sample (S2) is subjected to modification towards the optimal sound, and the third copy of the audio signal sample (S3) is treated as a reference signal. These copies are subjected to the process of modification which take into account the frequency characteristic of the room. A system for modifying the sound signal frequency consisting of the sound buffer (BD), which is connected via a genre classification unit (UG) to control unit (US), which is connected to modification unit (UM) is characterized by that the audio buffer (BD) is connected to modification unit (UM), and to control unit (US) the room phonic analysis unit (UA) is attached. The control unit (US) is connected to modification unit (UM) via first frequency modifier (7) compensating parameters of the room acoustics and via the second frequency modifier (8) compensating genre. The first frequency modifier (7) is connected to the second frequency modifier (8) which is connected via the percentile analyzer (9) to the signal amplifier (10). A signal amplifier is connected to the block export (BE), the sound buffer (BD) is also connected directly to the first frequency modifier (7), the second frequency modifier (8) and to the signal amplifier (10) which is connected to the export block (BE).

IPC 8 full level

**H04R 3/04** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP)

**H04R 3/04** (2013.01); **H04S 7/305** (2013.01)

Citation (applicant)

- US 8531602 B1 20130910 - TUDOR ALEXANDRU [CH], et al
- US 2013163784 A1 20130627 - TRACEY JAMES [US], et al
- EP 2384025 A2 20111102 - HARMAN INT IND [US]
- US 2013178963 A1 20130711 - BERGMANN OLIVER [US]
- PL 40856314 A 20140616

Citation (search report)

- [IDA] US 2013178963 A1 20130711 - BERGMANN OLIVER [US]
- [A] US 2009182563 A1 20090716 - SCHOBEN DANIEL WILLEM E [NL], et al

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 3148215 A1 20170329**

DOCDB simple family (application)

**EP 15460077 A 20150923**