

Title (en)

METHOD FOR FREQUENCY WARPING OF AN AUDIO SIGNAL AND HEARING AID OPERATING ACCORDING TO THIS METHOD

Title (de)

VERFAHREN ZUR FREQUENZVERZERRUNG EINES AUDIOSIGNALS UND NACH DIESEM VERFAHREN ARBEITENDE HÖRVORRICHTUNG

Title (fr)

PROCÉDÉ D'AJUSTEMENT FRÉQUENTIEL D'UN SIGNAL AUDIO ET DISPOSITIF AUDITIF FONCTIONNANT SELON LEDIT PROCÉDÉ

Publication

EP 3373599 B1 20190821 (DE)

Application

EP 18151664 A 20180115

Priority

DE 102017203630 A 20170306

Abstract (en)

[origin: US2018255405A1] A method distorts the frequency of an input signal that is present as an audio signal. Here, the input signal is divided into a low-frequency signal component and a high-frequency signal component. These two signal components adjoin one another at a cut-off frequency. The high-frequency signal component is frequency-distorted and overlaid with the low-frequency signal component to form an output signal. An associated gain factor is modified, at least for an edge region, containing the cut-off frequency, of the high-frequency signal component and/or of the low-frequency signal component, such that a level difference between a signal level of the low-frequency signal component and a signal level of the frequency-distorted high-frequency signal component is increased.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: CN EP US)

H04R 25/353 (2013.01 - EP US); **H04R 25/453** (2013.01 - EP US); **H04R 25/505** (2013.01 - CN US); **H04R 2225/43** (2013.01 - EP US); **H04R 2430/03** (2013.01 - EP US)

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

DOCDB simple family (publication)

DE 102017203630 B3 20180426; AU 2018200907 A1 20180920; CN 108540913 A 20180914; CN 108540913 B 20200811; DK 3373599 T3 20191125; EP 3373599 A1 20180912; EP 3373599 B1 20190821; JP 2018148561 A 20180920; JP 6622829 B2 20191218; US 10674283 B2 20200602; US 2018255405 A1 20180906

DOCDB simple family (application)

DE 102017203630 A 20170306; AU 2018200907 A 20180207; CN 201810181968 A 20180306; DK 18151664 T 20180115; EP 18151664 A 20180115; JP 2018039291 A 20180306; US 201815893097 A 20180209