

Title (en)

Hearing aid and method for operating the same

Title (de)

Hörhilfegerät sowie Verfahren zum Betrieb eines Hörhilfegeräts

Title (fr)

Appareil auditif et son procédé de fonctionnement associé

Publication

EP 2506602 A3 20150610 (DE)

Application

EP 12159057 A 20120312

Priority

DE 102011006511 A 20110331

Abstract (en)

[origin: EP2506602A2] The device has a signal processing unit i.e. digital signal processor, processing frequency-dependent gains (V, V1-V8) of an electrical input signal. An adjusting part adjusts a normal gain (VN) of the electrical input signal depending on a signal frequency (f). The frequency-dependent gains in preset frequency ranges (K1-K8) are limited to a maximum gain (Vmax). The frequency-dependent gains are adjusted to exceed the normal gain of the electrical input signal or the maximum gain for duration of a detected sound e.g. consonant, and duration below setting time of a feedback whistling. The sound is noise caused by human or animal voice. An independent claim is also included for a method for operating a hearing aid device.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

G10L 25/78 (2013.01 - EP US); **H04R 25/453** (2013.01 - EP US); **H04R 2225/43** (2013.01 - EP US)

Citation (search report)

- [AD] WO 0005923 A1 20000203 - SIEMENS AUDIOLOGISCHE TECHNIK [DE], et al
- [AD] US 2011004468 A1 20110106 - FUSAKAWA KAZUE [JP], et al
- [A] US 2005222845 A1 20051006 - NAKAGAWA SEIJI [JP], et al
- [A] WO 2004008801 A1 20040122 - WIDEX AS [DK], et al
- [A] WO 9951059 A1 19991007 - AUDIOLOGIC HEARING SYS LP [US]
- [A] R W GUELKE: "Consonant burst enhancement: a possible means to improve intelligibility for the hard of hearing", JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT, 1 January 1987 (1987-01-01), UNITED STATES, pages 217 - 220, XP055187358, Retrieved from the Internet <URL:http://www.ncbi.nlm.nih.gov/pubmed/3430380> [retrieved on 20150505]

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 2506602 A2 20121003; EP 2506602 A3 20150610; EP 2506602 B1 20160928; DE 102011006511 A1 20121004;
DE 102011006511 B4 20160714; DK 2506602 T3 20170116; US 2012250919 A1 20121004; US 8811641 B2 20140819

DOCDB simple family (application)

EP 12159057 A 20120312; DE 102011006511 A 20110331; DK 12159057 T 20120312; US 201213437042 A 20120402