

Title (en)  
Method and apparatus for protection of the hearing of telephone users

Title (de)  
Verfahren und Vorrichtung zum Gehörschutz von Telefonbenutzern

Title (fr)  
Procédé et appareil pour la protection auditive des utilisateurs de téléphones

Publication  
**EP 1816892 B1 20090819 (EN)**

Application  
**EP 06101148 A 20060201**

Priority  
EP 06101148 A 20060201

Abstract (en)  
[origin: EP1816892A1] A communication device for protecting the hearing of a user which comprises at least one first microphone adapted to transform an acoustic ambient signal into an input signal, a speaker adapted to transform an output signal into an acoustic sound pressure, a communication interface adapted to receive a communication signal, and a processing unit operatively connected to said first microphone and said communication interface for receiving said input signal and said communication signal, adapted to calculate a total sound exposure as the sum of the long-time sound signal exposure of said communication signal and the long-time noise signal exposure of said input signal, and further operatively connected to said speaker and adapted to generate said output signal from said communication signal, wherein the output signal level is attenuated if said total sound exposure exceeds an upper action value.

IPC 8 full level  
**H04R 3/00** (2006.01); **G01H 3/14** (2006.01)

CPC (source: EP)  
**H04R 3/00** (2013.01); **H04R 29/00** (2013.01)

Cited by  
CN108270913A; JP2020503713A; EP3531275A4; GB2456296B; CN113739906A; GB2456296A; CN117692843A; WO2007131511A3; US8914137B2; US8984501B2; US9318086B1; US9812106B1; WO2010148227A1; WO2010148239A1; WO2010148244A1; WO2012071650A1; EP3567869A1; EP3886456A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1816892 A1 20070808; EP 1816892 B1 20090819**; AT E440455 T1 20090915; AU 2007200489 A1 20070823; AU 2007200489 B2 20071220; DE 602006008569 D1 20091001; HK 1109828 A1 20080620

DOCDB simple family (application)  
**EP 06101148 A 20060201**; AT 06101148 T 20060201; AU 2007200489 A 20070202; DE 602006008569 T 20060201; HK 08100478 A 20080115