

Title (en)
A directional hearing aid system

Title (de)
Direktionales Hörgerätesystem

Title (fr)
Système d'assistance auditive directionnelle

Publication
EP 2107826 A1 20091007 (EN)

Application
EP 08103217 A 20080331

Priority
EP 08103217 A 20080331

Abstract (en)
The invention relates to a hearing aid system comprising a body worn part comprising a multitude of microphones, each converting an acoustical signal to an electrical input signal, the microphones being arranged in the system to be able to pick up an acoustical signal from several different directions around a wearer of the body-worn part of the system, when worn in an operational position. The invention further relates to a method and use. The object of the present invention is to provide a hearing aid system enabling backwards directed directionality. The problem is solved in that the system further comprises a. One or more processing units, which deduct a backward, or omni-directional and a front oriented signal from the electrical input signals from the microphones; b. A weighting unit, which sets the front and the backward signal in relation and determine the importance of one signal over the other; c. A transition unit, which switches or gradually changes between front- or omni- or backward orientation of the signal perception. An advantage of the invention is that the hearing aid system is suitable for use in a situation where a source of sound intended for being specifically heard is located to the rear of a wearer of the hearing aid system. The invention may e.g. be of importance in a hearing aid for use in situations where the wearer of the hearing aid faces away from an acoustic source intended for being received by the wearer.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/40 (2013.01)

Citation (applicant)

- EP 0869697 A2 19981007 - LUCENT TECHNOLOGIES INC [US]
- WO 2007098768 A1 20070907 - GN RESOUND AS [DK], et al
- EP 1463378 A2 20040929 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- WO 2007147418 A1 20071227 - GN RESOUND AS [DK], et al
- US 5473701 A 19951205 - CEZANNE JUERGEN [US], et al
- EP 0869697 B1 20010926 - LUCENT TECHNOLOGIES INC [US]
- GARY W. ELKO; ANH-THO NGUYEN PONG, PROCEEDINGS OF IEEE ASSP WORKSHOP ON APPLICATIONS OF SIGNAL PROCESSING TO AUDIO AND ACOUSTICS, 15 October 1995 (1995-10-15), pages 169 - 172
- GARY W. ELKO; ANH-THO NGUYEN PONG, PROCEEDINGS OF IEEE ASSP WORKSHOP ON APPLICATIONS OF SIGNAL PROCESSING TO AUDIO AND ACOUSTICS, 15 October 1995 (1995-10-15), pages 169 - 172

Citation (search report)

- [X] WO 2007106399 A2 20070920 - MH ACOUSTICS LLC [US], et al
- [X] EP 1463378 A2 20040929 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [A] WO 2005029914 A1 20050331 - WIDEX AS [DK], et al

Cited by
CN111836162A; DE102012206759A1; DE102012206759B4; EP3490270A1; US9398379B2; US10674284B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2107826 A1 20091007

DOCDB simple family (application)
EP 08103217 A 20080331