Title (en)

Programmable hearing aid

Title (de)

Programmierbares Hörgerät

Title (fr)

Prothèse auditive programmable

Publication

EP 0712261 A1 19960515 (DE)

Application

EP 94117795 A 19941110

Priority

EP 94117795 A 19941110

Abstract (en)

In the hearing aid, signals are transmitted from a microphone (2,2') to a hearing device (3) via a neuronal structure (5) which processes the signals. The neuronal structure separates useful signals from noise by splitting input signals according to frequency. The neuronal network is composed of a single-layer feedback coupled network, a multi-layer non-feedback coupled network, or a mixture of both. The weighting functions at the input of all neurons are either predetermined by the circuit structure or programmable by an external control device. The programming data is stored on a data carrier (6) for the neurons.

Abstract (de)

Das Hörgerät (1) zeichnet sich durch eine verbesserte Signalverarbeitung, insbesondere eine verbesserte Trennung der Nutzsignale vom Störgeräusch, dadurch aus, daß Signale des Signalpfades von wenigstens einem Mikrofon (2, 2') zum Hörer (3) über eine neuronale Struktur (5) geführt und darin bearbeitet werden. <IMAGE>

IPC 1-7

H04R 25/00

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/507 (2013.01 - EP US); H04R 2225/41 (2013.01 - EP US)

Citation (search report)

- [YA] WO 9108654 A1 19910613 - NHA AS [NO]
- [YA] EP 0250679 A2 19880107 - AUDIMAX INC [US]
- [Y] FR 2562789 A1 19851018 - INTECH SYSTEMS CORP [US]
- [YA] WO 9326037 A1 19931223 - US ENERGY [US]
- [A] EP 0579152 A1 19940119 - MINNESOTA MINING & MFG [US]
- [A] G.TRAUTZL: "NEURONALE NETZE UNTERSTÜTZEN FUZZY LOGIK TOOL", ELEKTRONIK, vol. 41, no. 2, 21 January 1992 (1992-01-21), GERMANY, pages 100 - 101, XP000381757

Cited by

EP1023647A4; DE19948907A1; DE19844748A1; US6044163A; US7324649B1; WO0076268A3; WO2022081260A1; WO9854928A3; US6674867B2; US7187778B2

Designated contracting state (EPC)

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