

Title (en)

Digital system for the equalisation of frequency and time response of audio systems and devices and of listening spaces

Title (de)

Digitalsystem zur Entzerrung von Frequenz-Zeitgang in Audiosystemen und -vorrichtungen sowie in Abhörräumen

Title (fr)

Système numérique pour l'égalisation de la réponse en fréquence et temps des systèmes et dispositifs audio et d'espaces d'écoute

Publication

EP 0805613 A1 19971105 (EN)

Application

EP 96600010 A 19961223

Priority

GR 95100467 A 19951221

Abstract (en)

The invention consists in a digital electronic system and a method removing the distortions of the audio signal of audio reproduction systems, by completely equalising not only the distortions generated by these very systems, but also the distortions generated by listening spaces, as described in Figure 3. This is a stand-alone lowest system, connected, as shown in Figure 2, between digital audio sources (eg. CD player) and analog amplifier, which realises, by a Least Squares method, finite impulse response digital filters, with more than 800 coefficients per channel of stereo digital audio signal at the sampling frequency of 44,100 Hz, capable of realising up to 2,200 coefficients per channel by the method described in Figures 4 and 5, and which is easily programmable by the user through a system of PCMCIA card reading, screen and operation control microprocessor or/and through a communication gate with a PC, as shown in Figures 7, 10 and 11. <IMAGE>

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H04S 1/00

IPC 8 full level

H04S 1/00 (2006.01)

CPC (source: EP)

H04S 1/007 (2013.01)

Citation (search report)

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