

Title (en)  
Digital audio frequency optimizer

Title (de)  
Digitales System zur Audio-Frequenz Optimierung

Title (fr)  
Système numérique pour optimisation de la fréquence audio

Publication  
**EP 1622418 A1 20060201 (EN)**

Application  
**EP 04017414 A 20040722**

Priority  
EP 04017414 A 20040722

Abstract (en)  
A digital audio frequency optimizer is arranged to save a previously established frequency response curve of a speaker and a voice box in a read-only memory (EPROM). And there is a CPU as control center. After reading a serial signal of analog/digital signal transducer and arranging it to be apposition signal through the CPU, then the apposition signal is sent to digital signal processor (DSP) to operate with the frequency curve of speaker and voice box saved on read-only memory. Then the operated results are sent back to CPU to transfer to a serial signal, and transmitted to digital/analog signal transducer to transfer to analog signal. After processing by the filter and amplifying by a power amplifier through filter and buffer, the signal is output to speaker and voice box. Hereby a flat frequency output response curve can be obtained.

IPC 8 full level  
**H04R 3/04** (2006.01); **H03G 9/02** (2006.01)

CPC (source: EP)  
**H04R 3/04** (2013.01)

Citation (search report)

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Cited by  
CN105072535A; CN114650494A

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

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