

Title (en)  
PROCESSING AUDIO SIGNALS

Title (de)  
VERARBEITUNG VON AUDIOSIGNALEN

Title (fr)  
ENSEMBLE CAPTEUR CAPACITIF

Publication  
**EP 0948875 A1 19991013 (EN)**

Application  
**EP 97950301 A 19971222**

Priority  
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Abstract (en)  
[origin: WO9830064A1] A filter for processing audio signals to implement a predetermined HRTF, the filter comprising an FIR filter of a desired order having tapping points (T1 to T25) connected to respective coefficient multipliers (6) and thence to a common summing means (8). The values of the coefficients for the multipliers (8) are calculated as follows: (a) providing a time-domain impulse response of the said predetermined HRTF and applying a predetermined window function to the response to produce a simplified HRTF, (b) computing the transfer function of the simplified HRTF and comparing the transfer function of the simplified HRTF with the said predetermined HRTF in a low frequency region of about 100 Hz to determine an error value between the functions of the simplified and predetermined HRTFs for this frequency region, (c) modifying the response of the predetermined HRTF in dependence upon the error, and repeating steps (a) and (b); and (d) repeating steps (a), (b) and (c) a desired number of times until a desired level of accuracy is achieved.

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**H04R 3/00**; **H04S 3/00**

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