

(19)



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(11)

EP 0 772 374 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
29.03.2006 Bulletin 2006/13

(51) Int Cl.:
H04R 3/04 (2006.01) H04R 29/00 (2006.01)

(43) Date of publication A2:
07.05.1997 Bulletin 1997/19

(21) Application number: **96203005.2**

(22) Date of filing: **29.10.1996**

(84) Designated Contracting States:
DE DK FR GB

(30) Priority: **02.11.1995 DK 112495**

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(54) **Method and apparatus for controlling the performance of a loudspeaker in a room**

(57) A method for controlling the performance of a loudspeaker in a room, by determining in a first acoustic environment suitable parameters defining a first complex transfer function based on a measurement of the resultant movement of a loudspeaker driver diaphragm and the associated force, arising from the sound field in the room, acting on it, and in a second acoustic environment

the same or different parameters of a second complex transfer function by measuring the loudspeaker driver relating to the room. The ratio between the real parts of the first and second transfer functions is used to define the performance of a correcting filter, included in the signal chain to the loudspeaker driver.

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EUROPEAN SEARCH REPORT

Application Number
EP 96 20 3005

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			H04R
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 3 February 2006	Examiner Fülöp, I
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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03-02-2006

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