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(54) **Method to determine a feedback threshold in a hearing device**

(57) The present invention uses the fact that the gain during feedback in the forward path of a compressive system, as it is the case for a hearing device used to compensate a hearing loss, after having reached its steady state in "closed loop" operation, is equal to the feedback threshold gain (V_{KRIT}). The steady state is reached soon after having applied a low input signal level to the hearing device, which input signal level is below

55 dB SPL (Sound Pressure Level), for example, and would result, for the open loop compressive system, in a larger gain than the feedback threshold gain of the closed loop system, respectively, would result in the maximum possible hearing device gain (V_{max}) if maximum possible hearing device gain (V_{max}) is below feedback threshold gain (V_{KRIT}). The signal feedback gain is assessed in this steady state.

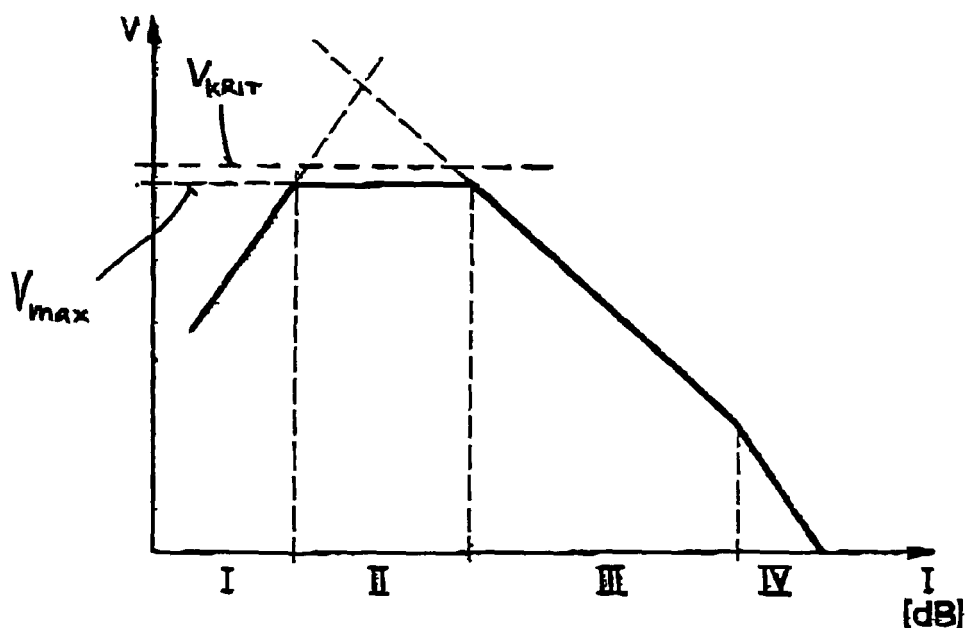


FIG.4



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EUROPEAN SEARCH REPORT

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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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			TECHNICAL FIELDS SEARCHED (IPC)
			H04R H03H H03F H04M A61F G10K H03G A61B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 February 2006	Examiner Timms, O
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 05 01 9858

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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