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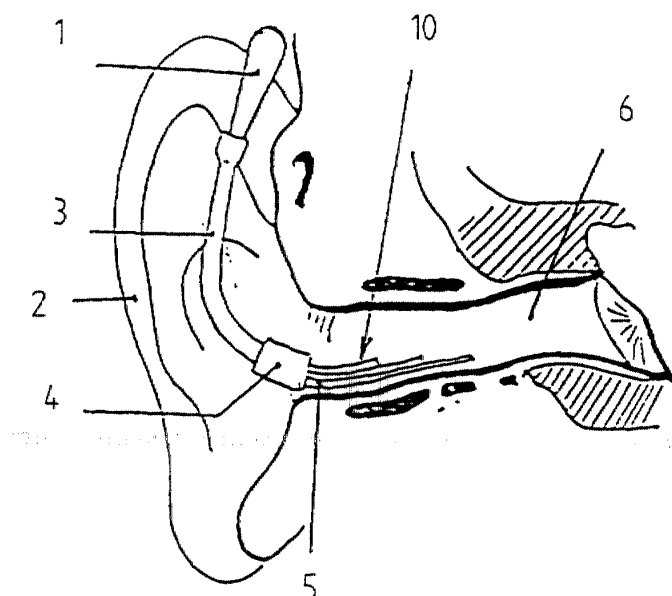
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(54) **Hearing aid**

(57) A hearing aid with a microphone, an amplifier arrangement connected to the microphone and a sound generator energized by the amplifier and having an output connected to a sound guide structure (10, 10', 10'') which is directed toward an ear, or respectively, an eardrum of a user, wherein between the auditory canal (6)

and the sound guide structure (10, 10', 10''), a gap remains permitting passage of ambient sounds. In order to prevent fringe haul-generating feedback coupling in spite of the small and compact dimensions of the hearing aid, the sound guide structure (10, 10', 10'') includes a plurality of air containing channels of different lengths having staggered sound discharge openings.

Fig. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 455 203 A (KNOWLES ELECTRONICS INC) 6 November 1991 (1991-11-06) * column 2, line 29 - column 3, line 3 * * column 3, line 47 - column 4, line 10 * * claims 1,2 *	1-5	H04R25/02
A	US 4 629 833 A (KERN REINHARD ET AL) 16 December 1986 (1986-12-16) * column 1, line 49 - column 2, line 47 * * claim 1 *	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04R
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		29 January 2003	Dionisi, M
CATEGORY OF CITED DOCUMENTS		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	
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			

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**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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