



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**20.06.2012 Bulletin 2012/25**

(51) Int Cl.:  
**H04R 25/00 (2006.01) G10L 21/02 (2006.01)**

(43) Date of publication A2:  
**10.11.2010 Bulletin 2010/45**

(21) Application number: **10173173.5**

(22) Date of filing: **03.03.2003**

(84) Designated Contracting States:  
**CH DE DK LI**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**03004661.9 / 1 339 256**

(71) Applicant: **Phonak AG**  
**8712 Stäfa (CH)**

(72) Inventors:  
• **Roeck, Hans-Ueli**  
**8634 Hombrechtikon (CH)**  
• **Allegro-Baumann, Silvia**  
**6314 Unterägeri (CH)**  
• **Pfisterer, Franziska**  
**8903 Birmensdorf (CH)**

(74) Representative: **Troesch Scheidegger Werner AG**  
**Schwäntenmos 14**  
**8126 Zumikon (CH)**

(54) **Method for manufacturing acoustical devices and for reducing wind disturbances**

(57) For reducing wind noise effects at a hearing device the output of an acoustical to electrical arrangement (3) of the hearing device is operationally connected to a high-pass filter arrangement (5) having a control input ( $C_5$ ) for the high-pass corner frequency ( $f_c$ ). The output of the high-pass filter unit (5) is operationally connected on one hand to a processor unit (PR) which fulfills transfer

characteristic tailoring according to the needs of an individual. The output of the processor unit (PR) is operationally connected to an output electrical to mechanical converter arrangement (7). On the other hand the output of the filter unit (5) is operationally connected to a statistic-forming unit (9) which thus acts as a low-pass type unit. The output of the statistic-forming unit (9) is operationally connected to the control input of the filter unit (5).

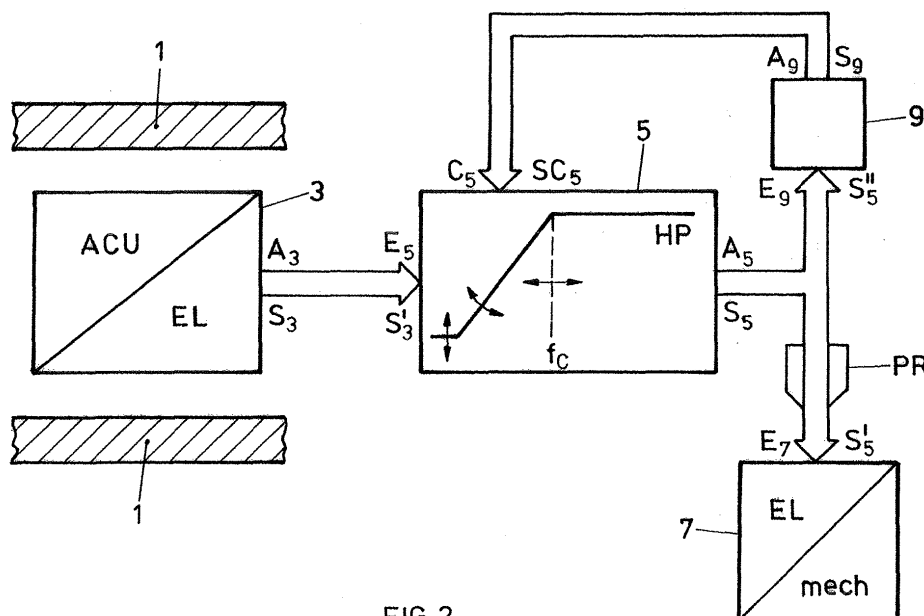


FIG. 2



## EUROPEAN SEARCH REPORT

Application Number  
EP 10 17 3173

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 02/32208 A2 (PHONAK AG [CH]; ALLEGRO SILVIA [CH]) 25 April 2002 (2002-04-25) * abstract * * page 6, line 9 - line 12 * * page 9, line 24 - page 10, line 4 * -----	1-9	INV. H04R25/00 G10L21/02
A	WO 98/27543 A2 (INTERVAL RESEARCH CORP [US]) 25 June 1998 (1998-06-25) * page 4, line 9 - line 21 * * page 6, line 28 - page 7, line 5 * * page 9, line 1 - line 15 * * page 11, line 2 - line 6 * * page 11, line 21 - line 26 * * claim 7; figure 16 * -----	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
			H04R G10L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 11 May 2012	Examiner Fülöp, István
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

1  
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 17 3173

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  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-05-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0232208 A2	25-04-2002	AU 2472202 A	29-04-2002
		AU 2002224722 B2	03-04-2008
		CA 2439427 A1	25-04-2002
		EP 1470735 A2	27-10-2004
		JP 3987429 B2	10-10-2007
		JP 2005504325 A	10-02-2005
		WO 0232208 A2	25-04-2002
WO 9827543 A2	25-06-1998	AU 5589398 A	15-07-1998
		US 6570991 B1	27-05-2003
		WO 9827543 A2	25-06-1998