

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 642 291 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
06.03.1996 Bulletin 1996/10

(51) Int Cl.⁶: **H04R 7/16**

(43) Date of publication A2:
08.03.1995 Bulletin 1995/10

(21) Application number: **94305330.6**

(22) Date of filing: **20.07.1994**

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: **05.08.1993 US 102378**

(71) Applicant: **BOSE CORPORATION**
Framingham, Massachusetts 01701-9168 (US)

(72) Inventor: **Scanlan, James M.**
Marlborough, Massachusetts 01752 (US)

(74) Representative: **Brunner, Michael John et al**
GILL JENNINGS & EVERY
Broadgate House
7 Eldon Street
London EC2M 7LH (GB)

(54) **Loudspeaker diaphragm attaching**

(57) A loudspeaker includes a diaphragm having a neck with an annular edge (21), a voicecoil former (14) having an annular edge, and a spider (10). The annular edge (21) of the neck and the annular edge of the voicecoil former (14) are connected together in an annular groove structure (11) in fixed relationship to the spider (10).

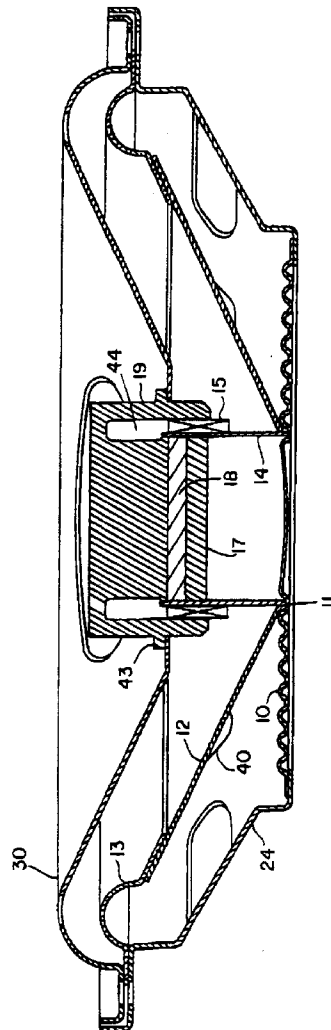


Fig. 4

EP 0 642 291 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 30 5330

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)
X	FR-A-2 668 018 (CABASSE KERGONAN SA) * page 13, line 29 - page 14, line 18; figures 3,3A *	1,2	H04R7/16
A	EP-A-0 270 981 (EWD ELECTRONIC-WERKE DEUTSCHLAND GMBH) 15 June 1988 * page 2, column 1, line 53 - page 3, column 3, line 31; figures *	1,3	
A	US-A-4 737 992 (LATHAM-BROWN ET AL.) * column 2, line 62 - column 4, line 3; figures *	1,4-7	
A	PATENT ABSTRACTS OF JAPAN vol. 016 no. 354 (E-1242), 30 July 1992 & JP-A-04 111597 (SHARP CORP) 13 April 1992, * abstract *	1	
A	EP-A-0 030 758 (PHILIPS NV) * page 5, line 12 - page 6, line 37; figures *	1	
A	US-A-4 118 605 (KOBAYASHI) * column 2, line 22 - column 3, line 55; figures *	1	
A	US-A-5 008 945 (MURAYAMA ET AL.) * column 1, line 66 - column 3, line 15; figures *	1	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		15 January 1996	Gastaldi, G
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	

EPO FORM 1503 03/82 (P04C01)