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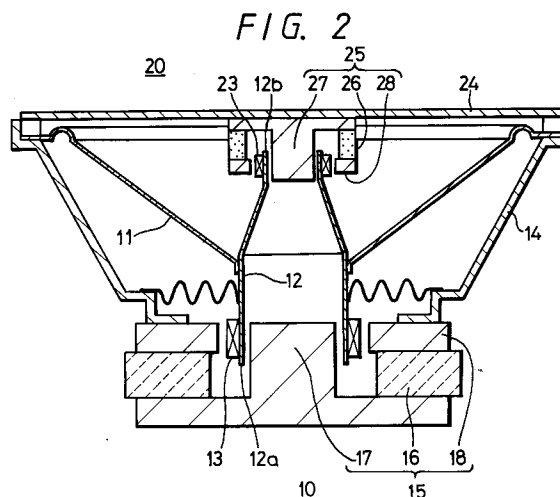
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18.03.92 Bulletin 92/12(71) Applicant: **SONY CORPORATION**
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J.A. KEMP & CO., 14 South Square, Grays Inn
London WC1R 5LX(GB)(54) **Loudspeaker drive unit.**

(57) The invention relates to a constant current drive speaker system in which a dynamic speaker is driven by a constant current amplifier. Generally, when the dynamic speaker is driven by a constant current, it is frequently observed that the vibrational system thereof cannot be damped satisfactorily near the low band resonance frequency. To remove this disadvantage, a damping coil (23) provided bodily with the vibrational system is terminated by a pre-determined impedance and is provided within a magnetic gap of a magnetic circuit (25) provided independently of the magnetic circuit (15) of the vibrational system, thereby damping the vibration system. Alternatively, a voice coil bobbin is formed of a conductive material to form a short-circuited ring on which there is wound a voice coil. This speaker system is driven by a low frequency, whereby the vibrational system thereof is damped without electromagnetic coupling.





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EUROPEAN SEARCH REPORT

Application Number

EP 90 30 7020

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.5)
X	US-A-4 598 178 (ROLLINS) - - -	1-3,8	H 04 R 9/06 H 04 R 3/00
A	US-A-4 598 178 (* column 1, line 47 - column 3, line 8 *) - - -	6,7,9	
X	EP-A-0 134 092 (LINN PRODUCTS) - - -	1,4	
A	EP-A-0 134 092 (* page 1, line 2 - line 5 *) * page 1, line 27 - page 2, line 38 ** - - -	5,6,8,9	
X	US-A-4 783 824 (KOBAYASHI) - - -	1	
A	US-A-4 783 824 (* column 2, line 6 - line 53 *) * column 3, line 6 - line 42 ** - - -	6-8	
X	GB-A-1 591 184 (A.R.D.) * page 1, line 97 - page 2, line 46 ** - - - - -	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 04 R
Place of search		Date of completion of search	Examiner
The Hague		24 January 92	ZANTI P.V.L.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
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T : theory or principle underlying the invention			