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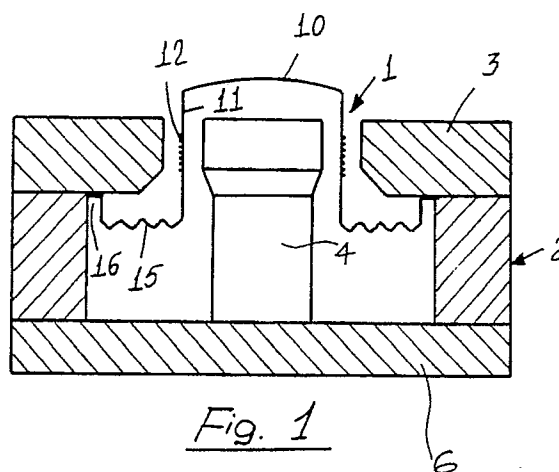
54 Movable-coil electrodynamic transducer diaphragm.

57 The present invention relates to a diaphragm for an electro-acoustical transducer, of the movable-coil electrodynamic type, for transforming electrical signals into acoustical signals and diffusing the electrical signals, characterized in that the diaphragm comprises a single-piece blade member, made of a metal material of very low density and very good heat conductivity and mechanical characteristics.

The metal blade is resiliently suspended on the perimeter thereof, is metallally coupled to the unit of which it forms a portion, and supports the acoustical current wire fixed at the center of mass thereof to the active metal surface.

The acoustical current conductor wire communicates to the blade the heat which is produced by the acoustical current, which is added to that generated in the blade mainly because of the deformation of the resilient suspension.

This generated heat is quickly absorbed by the metal blade and efficiently dissipated by irradiating it into the encompassing air and by conduction through the adjacent masses, thereby holding the temperature under a danger level.



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EUROPEAN SEARCH REPORT

Application Number

EP 90 83 0200

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-3 991 286 (HENRICKSEN) * Page 2, lines 40-56; figure 3 *	1,4	H 04 R 7/02 H 04 R 9/02
Y	-----	2-3,5-7,8,9	H 04 R 7/20 H 04 R 9/04 H 04 R 7/12
Y	DE-A-2 357 425 (NIPPON GAKKI SEIZO K.K.) * Page 1, paragraph 2 *	2-3	
Y	-----	5-7	
Y	US-A-2 392 143 (GRAHAM) * Page 2, lines 27-49; figure 1 *		
Y	-----	8,9	
Y	JP-A-5 830 297 (MATSUSHITA) * Abstract; figure *		
Y	-----	9	
Y	DE-B-2 110 466 (SEL) * Page 3, lines 3-16; figure 2 *		
A	-----	2-3	
A	DE-A-7 448 30 (KLANGFILM) * Page 2, lines 32-34 *		
A	-----	1	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	AES - JOURNAL OF THE AUDIO ENGINEERING SOCIETY: AUDIO/ACOUSTICS/APPLICATIONS, vol. 35, no. 10, October 1987, pages 778-791, New York, NY, US; C.A. HENRICKSEN: "Heat-transfer mechanisms in loudspeakers: Analysis, measurement, and design" * Pages 781-782, paragraph 4 *		H 04 R
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 14 May 91	Examiner MESSELKEN M.
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			