Title (en)

Movable-coil electrodynamic transducer with a diaphragm.

Title (de)

Elektrodynamischen Schwingspul-Wandler mit einem Membran.

Title (fr)

Transducteur électrodynamique à bobine mobile avec un membrane.

Publication

EP 0397621 B1 19950920 (EN)

Application

EP 90830200 A 19900508

Priority

IT 2046089 A 19890511

Abstract (en)

[origin: EP0397621A2] The present invention relates to a diaphgram 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 diaphgram 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 metally 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.

IPC 1-7

H04R 7/02; H04R 9/02; H04R 7/20; H04R 9/04; H04R 7/12

IPC 8 full level

H04R 9/04 (2006.01); **H04R 7/02** (2006.01); **H04R 7/12** (2006.01); **H04R 9/02** (2006.01); **H04R 31/00** (2006.01)

CPC (source: EP)

H04R 7/02 (2013.01); **H04R 9/022** (2013.01)

Citation (examination)

JP S5830297 A 19830222 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

EP1811805A3; WO0013463A1

Designated contracting state (EPC)

CH DE DK ES FR GB LI NL SE

DOCDB simple family (publication)

EP 0397621 A2 19901114; **EP 0397621 A3 19910828**; **EP 0397621 B1 19950920**; CA 2016478 A1 19901111; DE 69022474 D1 19951026; DE 69022474 T2 19960523; DK 0397621 T3 19960205; ES 2077665 T3 19951201; IT 1229706 B 19910907; IT 8920460 A0 19890511; JP H0349500 A 19910304

DOCDB simple family (application)

EP 90830200 A 19900508; CA 2016478 A 19900510; DE 69022474 T 19900508; DK 90830200 T 19900508; ES 90830200 T 19900508; IT 2046089 A 19890511; JP 12250590 A 19900511