

Title (en)

Diaphragm for electroacoustic transducer with discontinuous variation of the aperture angle.

Title (de)

Membran für elektroakustischen Wandler mit unstetiger Änderung des Öffnungswinkels.

Title (fr)

Membrane pour transducteur électroacoustique avec variation discontinue de l'angle d'ouverture.

Publication

**EP 0491139 B1 19940706 (DE)**

Application

**EP 91118025 A 19911023**

Priority

AT 215390 A 19901025

Abstract (en)

[origin: EP0491139A2] The invention is a diaphragm for electroacoustic transducers with the object of approximating the decay spectrum (postoscillation) of the diaphragm to the decay spectrum of the human auditory apparatus. For this purpose, the diaphragm is to be constructed from at least two cones with different aperture angles. The applicable aperture angles are 163, 157, 140, 114, 98, 82 and 66 degrees. A more natural and pleasant sound impression is produced by the coincidence of the characteristic oscillations of the ear with the characteristic oscillations of the transducer. Overview of the figures: Figure 1: Cross-section of the diaphragm with the aperture angles  $\alpha = 140$  degrees and  $\beta = 114$  degrees (1) = suspension (2) = drive (3) = diaphragm Figure 2: Cross-section through a concave diaphragm with the aperture angles 114 degrees, 140 degrees and 157 degrees. (1) = suspension (2a), (2b) two possible drive types as examples (3) = diaphragm <IMAGE>

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