

Title (en)
Suspension for cone loudspeaker

Title (de)
Aufhängung für Konuslautsprecher

Title (fr)
Suspension pour haut-parleur à membrane conique

Publication
EP 0659031 B1 19980923 (DE)

Application
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Priority
DE 4343324 A 19931218

Abstract (en)
[origin: EP0659031A1] According to the prior art, it is known to connect diaphragms (11) of cone loudspeakers to the loudspeaker frame (10) by means of so-called beads (13). Such beads (13) are predominantly formed from plastic or rubber and are connected to the diaphragm (11) and to the loudspeaker frame (10) by using suitable adhesives. This type of connection restricts the free choice of material of the abovementioned components because not all elastic bead materials can be connected to the diaphragm (11) with the required mechanical stability. The selection of material is restricted further if the loudspeaker is exposed to environmental temperatures of greater than 100 DEG C because the adhesive connections lose their strength under these conditions. This is why the invention is based on the object of specifying a high-strength suspension for diaphragms of cone loudspeakers. This object is achieved by the fact that the beads (13) are formed from an injectable high-temperature-resistant elastomer (silicone or fluoroelastomer) and that the inner edge (18) of the bead (13) is connected to the upper edge (19) of the diaphragm (11) by being vulcanised. Especially strong connections of diaphragm (11) and bead (13) are given when the upper edge (19) of the diaphragm (11) has penetrations (20) and the areas of the inner edge (18) arranged on both sides of the diaphragm (11) are connected to the bead material through the penetrations (20) in the diaphragm (11). <IMAGE>

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