

Title (en)

Piezomembrane constrained in the center and its employment to provide an acoustic howler.

Title (de)

Zentereingeschränktes, piezoelektrisches Membran und ihre Anwendung zu einem Hauler.

Title (fr)

Membran piézo-électrique contrainte au centre et son utilisation comme hurleur.

Publication

**EP 0582557 A3 19950118 (EN)**

Application

**EP 93830348 A 19930803**

Priority

IT RM920591 A 19920805

Abstract (en)

[origin: EP0582557A2] A piezoelectric transducer device with a piezomembrane coupled, by means of a central pin, to a loading plate, which in turn is constrained on its external circumference, is employed to provide an acoustic howler in which the loading plate is integrant part of the howler casing. <IMAGE>

IPC 1-7

**G10K 9/12**

IPC 8 full level

**G10K 9/122** (2006.01)

CPC (source: EP)

**G10K 9/122** (2013.01)

Citation (search report)

- [X] DE 3029067 A1 19820211 - BOLTA WERKE GMBH [DE]
- [A] EP 0053947 A1 19820616 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [A] H.NISHIYAMA & K.KAGA: "Piezoelectric sound components used in a broad range of applications", JEE JOURNAL OF ELECTRONIC ENGINEERING, vol. 25, no. 260, August 1988 (1988-08-01), TOKYO JP, pages 62 - 66

Cited by

JP2019220911A; US7359286B2; EP1265222A1; EP0930607A3; US10847708B2; US11800806B2

Designated contracting state (EPC)

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**EP 93830348 A 19930803**; IT RM920591 A 19920805