

Title (en)  
MICROMETRIC LOUDSPEAKER

Title (de)  
MIKROMETRISCHER LAUTSPRECHER

Title (fr)  
HAUT-PARLEUR MICROMÉTRIQUE

Publication  
**EP 4075422 B1 20240717 (FR)**

Application  
**EP 22168299 A 20220414**

Priority  
FR 2103908 A 20210415

Abstract (en)  
[origin: US2022337954A1] A micrometric speaker includes a frame, an electromechanical transducer, and a mechanical-acoustic transducer comprising a rigid plate movably mounted in the frame. The electromechanical transducer comprises two piezoelectric actuators and two elastic strips. The frame comprises a central crossmember from which the two strips extend until engaging two lateral coupling edges of the mechanical-acoustic transducer, and the mechanical-acoustic transducer comprises two linearising springs each extending from one of the lateral edges to the rigid plate, to enable, during a deformation of the strips, a movement of the two lateral edges to the central crossmember and reduce the longitudinal constraints applied to the strips during their deformation due to their “recessed-guided” bending configuration.

IPC 8 full level  
**G10K 9/125** (2006.01); **B06B 1/06** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP US)  
**B06B 1/0629** (2013.01 - EP); **G10K 9/125** (2013.01 - EP); **H04R 1/288** (2013.01 - US); **H04R 7/02** (2013.01 - US); **H04R 7/24** (2013.01 - US); **H04R 17/00** (2013.01 - EP US); **B06B 2201/55** (2013.01 - EP); **H04R 2201/003** (2013.01 - EP); **H04R 2207/021** (2013.01 - US); **H04R 2400/00** (2013.01 - EP); **H04R 2400/11** (2013.01 - US); **H04R 2499/11** (2013.01 - US)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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