

Title (en)
ENHANCED PERFORMANCE MEMS LOUDSPEAKER

Title (de)
MEMS-LAUTSPRECHER MIT ERHÖHTER LEISTUNGSFÄHIGKEIT

Title (fr)
HAUT-PARLEURS MEMS AYANT UNE EFFICACITÉ ACCRUE

Publication
EP 3852391 B1 20240508 (DE)

Application
EP 20168836 A 20200408

Priority
EP 20152560 A 20200117

Abstract (en)
[origin: WO2021144400A1] The invention relates to an MEMS transducer that comprises a vibrating diaphragm (1) for producing or picking up pressure waves in a fluid in a vertical direction, wherein the vibrating diaphragm (1) is held by a support (4) and the vibrating diaphragm (1) has two or more vertical sections (2) that are formed parallel to the vertical direction and comprise at least one layer of an actuator material (11). The ends of the vibrating diaphragm (1) are in contact with an electrode (13), which means that actuation of the at least one electrode (13) allows the two or more vertical sections (2) to be excited to produce horizontal vibrations or which means that excitation of the two or more vertical sections (2) to produce horizontal vibrations results in an electrical signal being able to be generated at the at least one electrode (13).

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