

ABSTRACT**MEMS ACOUSTIC TRANSDUCER, AND ACOUSTIC TRANSDUCER
ASSEMBLY HAVING A STOPPER MECHANISM**

A MEMS acoustic transducer for generating and/or registering acoustic waves in the audible wavelength spectrum, comprising: a diaphragm carrier; a diaphragm which is connected by its edge region to the diaphragm carrier, and which can oscillate in relation to the diaphragm carrier along a Z-axis; and a stopper mechanism that limits the oscillations of the diaphragm in at least one direction. According to the invention, the MEMS acoustic transducer is characterised in that the stopper mechanism has: at least one reinforcing element arranged on one side of the diaphragm; and a stop opposite the reinforcing element, which is at a distance from the diaphragm when said diaphragm is in a neutral position, and against which the reinforcing element impinges in the case of maximum deflection. The invention also relates to an acoustic transducer assembly having a MEMS acoustic transducer of this type.

Figure 4