TITLE OF INVENTION: PIEZOELECTRIC MEMS MICROPHONE CHIP AND PIEZOELECTRIC MEMS MICROPHONE

Abstract

The present application discloses a piezoelectric micro electrical mechanical system (MEMS) microphone chip and a piezoelectric MEMS microphone, and relates to the technical field of piezoelectric devices. The piezoelectric MEMS microphone chip includes a substrate frame and a plurality of sound receiving beams arranged on the substrate frame. Each of the sound receiving beams includes a connecting beam and a cantilever beam. The connecting beam and the cantilever beam are staggered on a circumference. One ends of the plurality of sound receiving beams that face a geometric center of the a circumference are fixedly connected to one another in a center defined by the substrate frame, and one end of the connecting beam that is away from the geometric center is fixedly connected to the substrate frame. The chip can not only lead out an electrical signal of the cantilever beam through the connecting beam, but also improve the fixing stability of the cantilever beam, and also enhances the output sensitivity of the piezoelectric MEMS microphone.

Fig. 2