

ABSTRACT

PIEZOELECTRIC ACCELEROMETER

An accelerometer. At least some of the example embodiments include an accelerometer having a first piezoelectric element having a first polarization, the first piezoelectric element defining an upper surface and a second piezoelectric element having a second polarization, the second piezoelectric element defines a lower surface parallel to the upper surface of the first piezoelectric element; the first polarization being aligned with the second polarization. The accelerometer further includes a first mounting plate that defines a first aperture, the first and second piezoelectric elements extending through the first aperture such that the first mounting plate transects the first and second piezoelectric elements. The piezoelectric elements define a first cantilever portion on a first side of the first mounting plate, and the piezoelectric elements define a second cantilever portion on a second side of the first mounting plate opposite the first side.

FIG. 1A