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(54) Title: A VIBRATION TOLERANT ACCELERATION SENSOR STRUCTURE

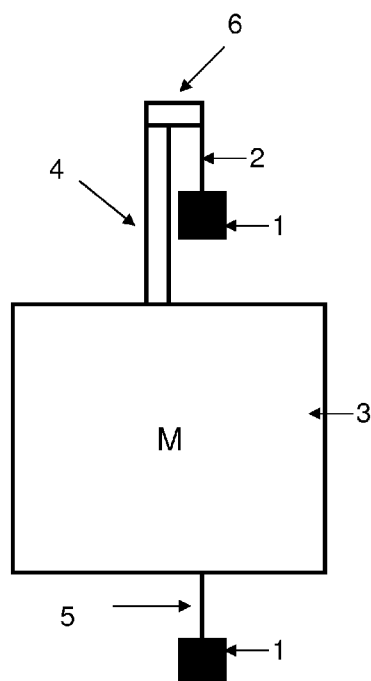


Figure 2

(57) Abstract: A MEMS structure comprises an anchor (1), a spring (2), and a seismic mass (3) that is suspended to the anchor (1) via the spring to pivot around an axis of rotation. Errors from unwanted vibration modes are reduced by including in the MEMS structure a spring structure (2,4,6) that extends from the seismic mass (3) to the anchor(1). Said spring structure (2,4,6) comprises a side arm (4) that is connected to the seismic mass (3) or the anchor (1). At least part of the spring structure (2,4,6) is formed by a side arm (4) that extends in the spring structure in a direction parallel to the axis of rotation of the seismic mass; and is attached to one end of the spring (2).



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