

ABSTRACT

SENSOR DEVICE

5 A sensor device 1 includes: a holder 30 having an insertion hole 33; a probe 21 having a proximal end to be inserted in the insertion hole 33 and having a portion to be inserted in the insertion hole 33, a diameter of the portion of the probe 21 to be inserted in the insertion hole being smaller than a hole diameter of the insertion hole 33; piezoelectric elements 23 and 24 housed in the holder 30, configured to be brought into contact with the
10 proximal end of the probe 21 directly or indirectly, a vibration of the probe 21 acting on the piezoelectric elements 23 and 24; an O-ring 41 (prevention member) disposed in the insertion hole 33 and holding the probe 21 to prevent the probe 21 from contacting the holder 30, the probe 21 being configured such that a tip 21d of the probe 21 is pushed against a measurement object to detect a vibration of the measurement object.

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FIG. 2