

ABSTRACT

SENSOR DEVICE

Provided is a sensor device that can accurately detect vibrations of a measurement object with a spring biasing a vibration detecting unit to cause a tip of a detection probe to project. A sensor device 1 includes: a cylindrical casing 10; a vibration detecting unit 20 including a detection probe 21, a bottomed cylindrical holder 22 having a bottom in which a rear end of the detection probe 21 is inserted and fixed, piezoelectric elements 25 and 26 disposed rearward of the detection probe 21 in the holder 22 and configured to contact the rear end of the detection probe 21, and a push member 32 held in the holder 22 and configured to push the piezoelectric elements 25 and 26 against the rear end of the detection probe 21, the vibration detecting unit 20 being disposed in the casing 10; and a coil spring 35 that is disposed rearward of the vibration detecting unit 20, is configured to contact the holder 22 to bias the holder 22 forward, and causes a tip 21d of the detection probe 21 to project from the casing 10, wherein the tip 21d of the detection probe 21 is pushed against a measurement object to detect vibration of the measurement object.

FIG. 2