

Title (en)
VIBROGUARD FOR MACHINE ELEMENTS

Title (de)
SCHWINGUNGSWÄCHTER FÜR MASCHINENELEMENTE

Title (fr)
CONTROLEUR DE VIBRATIONS POUR ORGANES DE MACHINES

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Application
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Abstract (en)
[origin: WO2004042340A1] A measuring system (1) for structure-borne noise measurement of machine elements in machine housings. The measuring system (1) is fixed to the machine housing (15) via a lubrication hole opening (16) and comprises the following elements: a mounting pin (2) with a continuous bore hole (3); a housing (5, 5a) for receiving a printed circuit board; at least one printed circuit board (9) provided with electronic components for signal evaluation; at least one vibration sensor (7a). The vibration sensor housing (7) comprising the vibration sensor (7a) is rotationally mounted in relation to the mounting pin (2) when the mounting pin is screwed into the lubrication hole opening (16) and the vibration sensor housing (7) is rotationally fixed to the machine housing (15) in a non-positive fit via a metal bushing (6) when the mounting pin (2) is screwed in an end position. The vibration sensor (7a) is located in an adjacent position with respect to the metal bushing (6), whereby structure-borne noise is directly transferred from the machine housing (15) to the vibration sensor (7a) via the metal bushing (6). .

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