Title (en)

VIBRATION MEASUREMENT SYSTEM

Title (de)

VIBRATIONSMESSSYSTEM

Title (fr)

SYSTEME DE MESURE DE VIBRATIONS

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Application

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Priority

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Abstract (en)

[origin: WO2007028686A1] The invention relates to a vibration measurement system for frequency-selective oscillation measurement in particular of low frequencies as are relevant in the field of automation and drive technology. The invention proposes coupling a broadband transmitter structure, which is excited directly by the excitation signal to be determined, via an electrostatic or inductive force to a receiver structure. This force coupling results in amplitude modulation of a carrier signal exciting the receiver structure. The actual excitation signal can be extracted from the spectrum of the amplitude-modulated carrier signal, for example by suitably selecting the frequency of the carrier signal. In order to make an oscillation analysis possible which is as unsusceptible to interference possible, an interference signal brought about, for example, by connector excitations is largely eliminated in advance from the amplitude-modulated carrier signal.

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