Title (en)
METHOD FOR DETECTING A STATE OR A MALFUNCTION BY VIBRATORY ANALYSIS

Title (de)
VERFAHREN ZUR DETEKTION EINES ZUSTANDS ODER EINER FEHLFUNKTION DURCH SCHWINGUNGSANALYSE

Title (fr)
SYSTEME DE DETECTION D'UN ETAT OU D'UN DYSFONCTIONNEMENT PAR ANALYSE VIBRATOIRE

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Abstract (en)
[origin: WO2018197440A1] The present invention relates to a system (S1, S2) for detecting a state or a malfunction of an assembly comprising a structure, said system (S1, S2) comprising a device for sensing vibrations of the structure (P, C), said device for sensing vibrations of the structure (P, C) comprising at least one piezoelectric sensor mechanically connected with said structure (P, C), said system (S1, S2) further comprising means for recording a signal representative of the vibrations of the structure (P, C) and means for processing said signal in order to detect a state or a malfunction of the assembly, said processing means comprising means for transforming said signal in order to form a spectrum representative of the state or the malfunction, the system further comprising means for comparing said spectrum with a plurality of patterns respectively characteristic of a state or a malfunction of the assembly, in such a way as to identify the state or the malfunction of the assembly.

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