

Title (en)

SYSTEM AND METHOD OF DIAGNOSIS THROUGH DETECTION OF MECHANICAL WAVES IN REFRIGERATION SYSTEMS AND/OR HOUSEHOLD APPLIANCES

Title (de)

SYSTEM UND VERFAHREN ZUR DIAGNOSE DURCH ERFASSUNG VON MECHANISCHEN WELLEN IN KÄLTEANLAGEN UND/ODER HAUSHALTSGERÄTEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE DIAGNOSTIC PAR LA DÉTECTION D'ONDES MÉCANIQUES DANS DES SYSTÈMES DE RÉFRIGÉRATION ET/OU DES APPAREILS DOMESTIQUES

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Application

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Abstract (en)

[origin: WO2008144864A1] The present invention relates to a system and a method of diagnosis for a refrigeration system and/or household appliance which, based on a multiplicity of physical magnitudes detected, determine and inform the operating condition of said refrigeration system and/or of its components. Basically, the magnitudes are divided into two groups, namely: (i) those from which spectral signatures will be generated (magnitudes relating to mechanical vibrations); and (ii) magnitudes from which spectral signatures will not be generated. The spectral signatures are compared with the standard signatures, and the diagnosis is provided based on this comparison. After the operating condition has been diagnosed, it is stored in a database, and a record of the system operation is updated. The operating conditions are made available for viewing, and based on the record viewed, it is possible to determine whether or not the refrigeration system and/or household appliance and the components thereof are malfunctioning or not. The application further describes a compressor whose diagnosis can be determined by the method and system of diagnosis according to the present invention.

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