

Title (en)

METHOD FOR DETERMINING ASYMMETRIC VIBRATIONS IN AN ELECTRIC DEVICE

Title (de)

VERFAHREN ZUM FESTSTELLEN UNSYMMETRISCHER SCHWINGUNGEN IN EINEM ELEKTRISCHEN GERÄT

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE VIBRATIONS ASYMÉTRIQUES DANS UN APPAREIL ÉLECTRIQUE

Publication

EP 3959790 A1 20220302 (DE)

Application

EP 20725091 A 20200421

Priority

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Abstract (en)

[origin: WO2020233922A1] The invention relates to a method for determining a direct current component in an electric device (1) which is connected to a high-voltage supply network, which method comprises: - acquiring operating noises of the electric device (1) with the aid of acoustic sensors, which provide acoustic signals at the output; - breaking the acoustic signals down into the frequency components thereof by means of a Fourier transformation yielding a frequency spectrum; - determining odd and even frequency components of the frequency spectrum in dependence upon a basic frequency of the high-voltage supply network and setting them in a ratio (R) to one another; - concluding that a direct current component is present if the ratio (R) exceeds a predefined threshold value; wherein the acoustic sensors are part of a portable unit (8).

IPC 8 full level

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