

Title (en)

METHOD AND DEVICE FOR CONTROLLING THE OPERATING TEMPERATURE OF A LOUDSPEAKER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REGELUNG DER BETRIEBSTEMPERATUR EINES LAUTSPRECHERS

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LE CONTRÔLE DE LA TEMPÉRATURE DE FONCTIONNEMENT D'UN HAUT-PARLEUR

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Abstract (en)

[origin: WO2013156439A1] The invention relates to a method for controlling the temperature of an electrodynamic loudspeaker comprising a membrane (140) excited by an electric motor fed by an excitation signal (221), characterised in that it comprises the following steps: a) obtaining the spectral distribution of the electrical impedance of the motor at a moment t; b) identifying an impedance peak in a pre-defined frequency range of the spectral distribution obtained in step a); c) determining the difference in frequency between the central frequency Fc1 of the impedance peak identified in step b) and the central frequency Fc0 of an impedance peak identified in the same pre-defined frequency range in a spectral distribution of electrical impedance of the motor, obtained at a moment t0 previous to t1 ; d) obtaining a correlation relation between the difference in frequency (Fc0-Fc1) and the temperature of said loudspeaker; and e) determining the temperature of the loudspeaker according to the result of step c) and the correlation of step d). The invention also relates to a device for implementing said method.

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