

Title (en)

ELECTRIC HEATER AND METHOD FOR DETECTING OVERHEATING IN SUCH AN ELECTRIC HEATER

Title (de)

ELEKTRISCHER HEIZER UND VERFAHREN ZUM ERKENNEN EINER ÜBERHITZUNG EINES SOLCHEN ELEKTRISCHEN HEIZERS

Title (fr)

DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE ET PROCÉDÉ DE DÉTECTION DE SURCHAUFFE D'UN TEL DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2018041787A1] The invention relates to an electric heater (1) for heating fluid streams with a heating element (2) and a control device (3) for controlling a heat output produced by the heating element (2), wherein the heating element (2) has an inductance (L\_RHK) that changes on the basis of the temperature, and wherein an overheating detection device (4) is provided that is configured to sense a change in the current (I<sub>heat</sub>) flowing through the heating element (2) caused by a change in the inductance (L\_RHK) and to compare said sensed change with a previously defined limit value and to determine overheating in the electric heater (1) in the event of the limit value being exceeded. The invention further relates to a method for detecting overheating in such an electric heater (1).

IPC 8 full level

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