

Title (en)
PANEL HEATER WITH TEMPERATURE MONITORING

Title (de)
FLÄCHENHEIZKÖRPER MIT TEMPERATURÜBERWACHUNG

Title (fr)
PANNEAU CHAUFFANT À CONTRÔLE DE TEMPÉRATURE

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Abstract (en)
[origin: WO2012066112A1] The invention relates to a panel heater with at least one flat substrate and an electrically conductive coating, which extends at least over part of a substrate area and is electrically connected to at least two connecting electrodes provided for electrical connection to the two terminals of a voltage source in such a way that, by applying a feed voltage a heating current flows in a heating element array, which is provided with one or more heating current paths formed in the conductive coating. The panel heater has one or more measurement current paths formed in the conductive coating which differ at least sectionally from the heating current paths, wherein each measurement current path is thermally coupled at least to a subregion of the heating element array and has at least two connecting sections for connecting a measuring device for determining the electrical resistance of said measurement current path. The heating and measurement current paths are each formed into the conductive coating by coating-free dividing regions, for example dividing lines, and are formed by the conductive coating. The invention further extends to a method for operating such a panel heater and the use thereof.

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