Title (en)
HEATING AND METHOD FOR CONTROLLING HEATING OF A FUNCTIONAL UNIT ON A MOTOR VEHICLE

Title (de)
HEIZUNG UND VERFAHREN ZUR STEUERUNG EINER HEIZUNG EINER FUNKTIONSEINHEIT EINES KRAFTFAHRZEUGS

Title (fr)
CHAUFFAGE ET PROCEDE DE COMMANDE DU CHAUFFAGE D'UNE UNITE FONCTIONNELLE D'UN VEHICULE AUTOMOBILE

Publication
EP 1382227 B1 20041124 (DE)

Application
EP 02740270 A 20020416

Priority
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• DE 10120098 A 20010425

Abstract (en)
[origin: WO02089526A2] Heating of the functional unit is started manually or automatically by means of a control device. An actual temperature or a parameter dependent on the actual temperature is monitored during, and optionally before and after the actual heating of the functional unit. Depending on the environmental conditions, such as air temperature or heat transfer resistance etc, the dynamics of the values, thus the time-dependence of the parameters can vary widely. A characteristic feature of the time course of the actual temperature or of the parameters dependent on the heating temperature, which determines the phase transition of water, serves for the evaluation and control of the heating. One characteristic feature is, for example, the speed of cooling of the functional unit during a heating pause. Analysis of the characteristic features is used to control the heating power of the heating elements. Threshold values and further factors such as proportionality factors for the controller, for example, are determined depending upon significant characteristics. The threshold values and factors are also particularly used for a subsequent starting of the heating, for example, after 24 hours, using the corresponding analysis and control.

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H05B 3/84; G05D 23/19

IPC 8 full level
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