

Title (en)

Method for controlling the charging and discharging of electric storage heaters

Title (de)

Verfahren zur Steuerung des Ladens und Entladens von elektrischen Speicherheizgeräten

Title (fr)

Procédé de régulation de la charge et de la décharge d'appareils de chauffage électrique à accumulation

Publication

EP 0826934 B1 20011031 (FR)

Application

EP 97450021 A 19970827

Priority

FR 9610655 A 19960827

Abstract (en)

[origin: EP0826934A1] During discharge, heat transfer rate depends on fan speed, controlled by altering the fan motor voltage. A thermostat monitoring the ambient temperature cuts the fan(s) out at the applied setting (Tc), and in at a slightly lower value (Ti). As temperature recovers (AB), fan motor voltage is raised from 170 in 3x20v steps, each lasting 5 minutes, the final step being extended if necessary to achieve the set level (Tc). If the tariff so provides, a continued fall (AE) to a lower temperature (T2), above the overnight setting (T3), is countered by partial re-energising of the heater elements. Each night's charge is determined according to the percentage charge remaining the previous evening, as calculated from fan running times and speeds.

IPC 1-7

F24H 9/20

IPC 8 full level

F24H 9/20 (2006.01); **F24H 7/04** (2006.01)

CPC (source: EP US)

F24H 9/2078 (2013.01 - EP US); **F24H 15/164** (2022.01 - EP US); **F24H 15/176** (2022.01 - EP US); **F24H 15/254** (2022.01 - EP US); **F24H 15/35** (2022.01 - EP US); **F24H 15/395** (2022.01 - EP US); **F24H 15/414** (2022.01 - EP US); **F24H 7/0416** (2013.01 - EP)

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IE IT LI LU SE

DOCDB simple family (publication)

EP 0826934 A1 19980304; **EP 0826934 B1 20011031**; AT E208028 T1 20011115; DE 69707794 D1 20011206; DE 69707794 T2 20021128; ES 2166965 T3 20020501; FR 2753037 A1 19980306; FR 2753037 B1 19981204

DOCDB simple family (application)

EP 97450021 A 19970827; AT 97450021 T 19970827; DE 69707794 T 19970827; ES 97450021 T 19970827; FR 9610655 A 19960827