

Title (en)

TEMPERATURE CONTROL APPARATUS AND A CENTRAL UNIT FOR TEMPERATURE CONTROL APPARATUS

Title (de)

TEMPERATURSTEUERUNGSVORRICHTUNG UND ZENTRALEINHEIT FÜR TEMPERATURSTEUERUNGSVORRICHTUNG

Title (fr)

APPAREIL REGULATEUR DE TEMPERATURE ET UNITE CENTRALE ASSOCIEE

Publication

EP 0599889 B1 19960403 (EN)

Application

EP 92916723 A 19920805

Priority

- IE 38691 A 19910806
- IE 921591 A 19920519
- IE 9200004 W 19920805

Abstract (en)

[origin: WO9303311A1] Temperature control apparatus (1) for controlling temperature in a building comprises a central unit (2) for supplying a heat transfer medium, namely, water to a remote unit (3) through a circulating circuit (4). The central unit comprises a reversible refrigeration circuit (8) comprising a main heat exchanger (11) which exchanges heat between the refrigerant medium and the heat transfer medium. A return temperature sensor (32) monitors the return temperature of the heat transfer medium to the main heat exchanger (11), and a differentiating circuit (34) determines the rate of exchange of change of the return temperature with respect to time. A microprocessor (26) controls a compressor (12) of the refrigeration circuit (8) for varying the energy output of the refrigeration circuit (8) in response to the rate of change of the return air temperature.

IPC 1-7

F24F 11/06; **F24F 3/06**; **F25B 13/00**; **F25B 49/02**

IPC 8 full level

F24F 3/06 (2006.01); **F24F 11/06** (2006.01); **F25B 13/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)

F24F 3/06 (2013.01 - EP); **F24F 11/83** (2018.01 - EP); **F24F 11/85** (2018.01 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 49/02** (2013.01 - EP)

Cited by

CN103237879A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9303311 A1 19930218; AT E136356 T1 19960415; AU 2401892 A 19930302; CA 2114938 A1 19930218; DE 69209652 D1 19960509; EP 0599889 A1 19940608; EP 0599889 B1 19960403

DOCDB simple family (application)

IE 9200004 W 19920805; AT 92916723 T 19920805; AU 2401892 A 19920805; CA 2114938 A 19920805; DE 69209652 T 19920805; EP 92916723 A 19920805