Title (en)

FAN CONVECTOR HEATING UNIT

Title (de)

GEBLÄSEKONVEKTORHEIZEINHEIT

Title (fr)

UNITÉ DE CHAUFFAGE À VENTILO-CONVECTEUR

Publication

EP 2195580 A2 20100616 (EN)

Application

EP 08806692 A 20080929

Priority

- GB 2008050876 W 20080929
- GB 0719279 A 20071004

Abstract (en)

[origin: GB2453342A] A fan convector heating unit 10 comprising an air duct 12 extending through a housing 11, a heat exchanger 21 located within the air duct 12 and connected to a water heating system, a fan 18 causing air to flow through the air duct 12 and over the heat exchanger 21, a first control means that activates the fan 18 when the water temperature reaches a predetermined standard activation temperature or low energy activation temperature, a second control means that deactivates the fan 18 when the water temperature falls below a predetermined standard deactivation temperature or low energy deactivation temperature, and a switch that varies between standard and low energy operating modes in response to the respective activation and deactivation temperatures. A room thermostat may be used with the control means. The unit 10 may mounted on a wall and the air duct 12 may extend from an inlet grille 13 at the top of the housing to an outlet grille 14 at the bottom of the housing. The air duct 12 may comprise a plenum chamber 19 in which the heat exchanger 21 may be located. The fan 18 may be tangential and may be located between the inlet grille 13 and plenum chamber 19. The housing 11 may comprise an isolated external front panel 15 that remains at ambient temperature during use. The domestic household fan-assisted radiator device 10 is used at high temperatures using conventional energy sources and at low temperatures by renewable energy sources to decrease running coasts, increase efficiency and minimise the user's carbon footprint.

IPC 8 full level

F24D 19/10 (2006.01); **F28D 1/02** (2006.01)

CPC (source: EP GB)

F24D 3/00 (2013.01 - GB); **F24D 19/00** (2013.01 - GB); **F24D 19/1009** (2013.01 - EP); **F24F 1/00** (2013.01 - GB); **F28D 1/024** (2013.01 - EP GB); **F28F 27/00** (2013.01 - EP)

Citation (search report)

See references of WO 2009044188A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

GB 0719279 A 20071004; CA 2701152 A 20080929; EP 08806692 A 20080929; GB 2008050876 W 20080929; US 68002608 A 20080929