

Title (en)  
HEATING DEVICE WITH FLEXIBLE HEATING BODY

Title (de)  
HEIZVORRICHTUNG MIT FLEXIBLEM HEIZK RPER

Title (fr)  
DISPOSITIF DE CHAUFFAGE A ELEMENT CHAUFFANT FLEXIBLE

Publication  
**EP 1491071 B1 20051130 (DE)**

Application  
**EP 03743805 A 20030215**

Priority

- DE 10211114 A 20020314
- EP 0301533 W 20030215

Abstract (en)  
[origin: WO03077597A1] The invention relates to a heating device, comprising an electrical heating conductor arrangement (1.1), integrated in a flexible heating body (1) and connected to a supply voltage (UV) by means of a connector cable, a heating circuit (3) connected to the above and to further elements including a first control element (THY1) embodied for a heating current (iH) and a drive circuit (2), for varying the heating current (iH) and regulating the temperature, connected to the first controller (3) and comprising a safety circuit (10, 10'). According to the invention, increased safety features are achieved, whereby the safety circuit (10, 10') comprises an error sensor device and an additional control element (THY2), driven by the safety circuit (10, 10'), is arranged in series with the first control element (THY1) in the heating circuit (3). The safety circuit (10, 10', 10'') also or only responds to an error in the control circuit (2) and interrupts the heating current (iH) by driving the additional control element (THY2) (Fig. 1A).

IPC 1-7  
**H05B 1/02**; **H05B 3/00**; **H05B 3/34**; **G05D 23/24**; **H02H 5/04**

IPC 8 full level  
**H05B 1/02** (2006.01); **H05B 3/34** (2006.01)

CPC (source: EP US)  
**H05B 1/0272** (2013.01 - EP US); **H05B 1/0288** (2013.01 - EP US); **H05B 3/342** (2013.01 - EP US)

Cited by  
DE102008006017A1; DE102009008530A1

Designated contracting state (EPC)  
DE GB IT NL

DOCDB simple family (publication)  
**DE 20303711 U1 20030612**; DE 10211114 A1 20031002; DE 50301808 D1 20060105; EP 1491071 A1 20041229; EP 1491071 B1 20051130; US 2005109752 A1 20050526; WO 03077597 A1 20030918

DOCDB simple family (application)  
**DE 20303711 U 20030215**; DE 10211114 A 20020314; DE 50301808 T 20030215; EP 0301533 W 20030215; EP 03743805 A 20030215; US 50780404 A 20040215