

Title (en)

METHOD AND CIRCUIT FOR CONTROLLING THE TEMPERATURE OF AC OPERATED HEATING APPARATUS.

Publication

EP 0629103 A3 19950111

Application

EP 94104875 A 19940328

Priority

DE 4315488 A 19930510

Abstract (en)

[origin: EP0629103A2] The two-part heating element (1) is connected electrically in series and coupled thermally to a temp.-dependent switching element (2) associated with a preheating resistor (6) bridged by a first diode (7). This resistor has e.g. 20 times the resistance of the heating element and its current is switched or varied by the set-point combination (3) of a second diode (8) conducting in the same direction and a bridging switch (9). When the second diode is bridged, the resistor becomes heated and the switching element is opened earlier than when the diode is operative.

IPC 1-7

H05B 3/34; **H05B 1/02**; **H05B 3/56**

IPC 8 full level

H05B 1/02 (2006.01); **H05B 3/34** (2006.01)

CPC (source: EP)

H05B 1/0272 (2013.01); **H05B 3/342** (2013.01); **H05B 2203/017** (2013.01)

Citation (search report)

- [A] US 4245149 A 19810113 - FAIRLIE IAN F
- [A] WO 8403601 A1 19840913 - WESSELTOFT PER
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 83 (P - 348) 12 April 1985 (1985-04-12)

Cited by

EP1443805A3; ES2116889A1; US6363731B1

Designated contracting state (EPC)

AT BE CH DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0629103 A2 19941214; **EP 0629103 A3 19950111**; **EP 0629103 B1 19970910**; AT E158133 T1 19970915; DE 4315488 A1 19941117; DE 4315488 C2 19980212; DK 0629103 T3 19980420; ES 2106395 T3 19971101

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