

Title (en)
A THERMAL LIMITING DEVICE

Publication
EP 0150087 B1 19880316 (EN)

Application
EP 85300161 A 19850110

Priority
GB 8401621 A 19840121

Abstract (en)
[origin: EP0150087A1] A thermal limiting device (10) is provided in heating apparatus including four infra-red-emitting, tungsten-halogen lamps (5 to 8) supported above a layer (2) of themally-insulative material. The device (10) consists of a metallic wire (11) arranged to de-energise the lamps (5 to 8) when it is subjected to a predetermined temperature. The wire (11) is disposed within a quartz tube (12), which selectively transmits and absorbs infra-red radiation of different wavelengths. A thermally-conductive tube (14), having an infra-red-reflective outer surface, is located between the wire (11) and quartz tube (12). The tube (14) prevents infra-red radiation transmitted through the quartz tube (12) from reaching the wire (11), whilst infra-red radiation absorbed by the tube (12) heats the wire (11) by thermal conduction and convection.

IPC 1-7
F24C 7/08; **H05B 1/02**; **H05B 3/68**; **H05B 3/74**

IPC 8 full level
F24C 7/08 (2006.01); **H05B 1/02** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP)
H05B 3/744 (2013.01); **H05B 3/746** (2013.01); **H05B 2213/04** (2013.01)

Cited by
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