

Title (en)  
Industrial electric heating enclosure.

Title (de)  
Industrielle elektrische Heizumrahmung.

Title (fr)  
Enceinte de chauffage électrique industriel.

Publication  
**EP 0105770 A1 19840418 (FR)**

Application  
**EP 83401728 A 19830831**

Priority  
FR 8216108 A 19820924

Abstract (en)  
1. An industrial electrical heating enclosure, characterized in that the walls of this enclosure are formed by the juxtaposition of modular radiant panels (1) each of which bears at least one heating resistor (4) on the inside of the enclosure, each panel (1) being connected to a power semi-conductor unit (39) to provide or break the supply to the resistor (4), which is fixed on the corresponding panel (1) on the side outside the enclosure so that the corresponding heating resistor is directly connected to the terminals of the unit (39), each unit (39) being connected to the same central electronic control device (31), which is remote from the enclosure and contains electronic means for regulating the heating temperature of the enclosure, in that the radiant panels are directly connected to a single power cable (30) which connects them to successively, and in that means are provided to limit the heating of each power semi-conductor unit (39).

Abstract (fr)  
Le dispositif de chauffage électrique industriel comprend au moins un panneau radiant (1) portant au moins une résistance de chauffage (4). Il est connecté à une unité à semi-conducteur de puissance (30) commandant l'alimentation de la résistance (4), cette unité étant pilotée par des moyens électroniques de régulation de la température. Chaque unité à semi-conducteur de puissance est directement placée sur le panneau radiant et elle est connectée à un même dispositif électronique central de pilotage (31) distant des panneaux radiants (1). Utilisation notamment pour le chauffage des fours de traitement thermiques ou des installations de séchage de peinture.

IPC 1-7  
**H05B 1/02**; **H05B 3/00**

IPC 8 full level  
**H05B 1/02** (2006.01); **H05B 3/00** (2006.01)

CPC (source: EP)  
**H05B 1/023** (2013.01); **H05B 3/0014** (2013.01)

Citation (search report)  
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