

Title (en)  
An infrared radiant heater.

Title (de)  
Infrarotstrahlungsheizvorrichtung.

Title (fr)  
Dispositif de chauffage par rayonnement infra-rouge.

Publication  
**EP 0087217 A1 19830831 (EN)**

Application  
**EP 83300322 A 19830121**

Priority  
JP 832982 A 19820121

Abstract (en)  
Described is an infrared radiant heater comprising a heat generator (1) with an infrared radiative layer (11) standing for the nearly vertical direction and an infrared transparent and low thermal conductive body (2) arranged near or on the infrared radiative layer (11). The infrared transparent and low thermal conductive body (2) typically comprises thin protruded plates (7) arranged near or on the infrared radiative layer (11) and spaces (8) limited by the thin protruded plates (7) and the infrared radiative layer (11). Thermal energy dissipated by convection can be decreased and, as a result, emission of radiant energy with a high radiation efficiency can be obtained.

IPC 1-7  
**H05B 3/20**; **H05B 3/10**

IPC 8 full level  
**F24D 13/02** (2006.01); **F24C 7/04** (2006.01); **F24D 15/00** (2006.01); **H05B 3/10** (2006.01); **H05B 3/22** (2006.01); **H05B 3/50** (2006.01)

CPC (source: EP)  
**F24C 7/043** (2013.01); **H05B 3/10** (2013.01); **H05B 3/22** (2013.01); **H05B 3/50** (2013.01); **H05B 2203/032** (2013.01)

Citation (search report)  
• US 3045100 A 19620717 - MILLS CLARENCE A  
• DE 2442892 A1 19750410 - HEWLETT PACKARD CO  
• US 3493724 A 19700203 - WELLS HAROLD D  
• DE 2407619 A1 19750828 - BLACK BODY CORP  
• FR 1230450 A 19600915  
• DE 2619622 B2 19800724  
• PATENT ABSTRACTS OF JAPAN, unexamined applications, section M, vol. 1, no. 65, June 24, 1977 THE PATENT OFFICE JAPANESE GOVERNMENT pages 879 M 77 & JP-A-52-13 146

Cited by  
CN103162395A; WO2009079890A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0087217 A1 19830831**; AU 1005383 A 19830728; JP S58127020 A 19830728

DOCDB simple family (application)  
**EP 83300322 A 19830121**; AU 1005383 A 19830105; JP 832982 A 19820121