

Title (en)  
THERMAL INSULATION DEVICE FOR A HEATING SOURCE

Publication  
**EP 0035280 A3 19810923 (DE)**

Application  
**EP 81101553 A 19810304**

Priority  
• DE 3008505 A 19800305  
• DE 3034495 A 19800912

Abstract (en)  
[origin: EP0035280A2] 1. Apparatus for heat insulation of a heat source (5), especially of the electric heater coil for a radiant hot plate for a cooker, having a containing dish (1) for a heat insulating material (2) located between the heat source and the base (4) of the containing dish, which comprises at least on insulating layer (9) adjacent the base comprising a microporous oxide aerogel formed by flame pyrolysis, especially silicic acid aerogel, with, if desired, mineral fibre reinforcement and/or filler is pressed directly into the dish and compresses there, characterized in that the insulating layer (9), has, on its sides facing away from the base (4), a concave - as seen from the heat source- surface (fused surface layer 10) and/or that the base (4) of the dish (1) - seen from below - is convex and/or that the inner face of the base (4) of the dish (1) has securing means for the material of the insulating layer (9), to such an extent that the insulating layer (9) can in no circumstances bow upwardly after release of the pressure of the press member that presses in the material.

IPC 1-7  
**H05B 3/74**

IPC 8 full level  
**H05B 3/74** (2006.01)

CPC (source: EP)  
**H05B 3/748** (2013.01)

Citation (search report)  
• US 3987275 A 19761019 - HURKO BOHDAN  
• US 2387461 A 19451023 - MYERS JOSEPH W, et al  
• FR 2425786 A1 19791207 - FISCHER KARL [DE]

Cited by  
EP0204185A1; EP0305633A3; US4864105A; DE19522798A1; US5834740A; GB2333680A; GB2333680B; DE102009033367A1; WO2012062370A1

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