

Title (en)

Electric furnace thermal insulating module and forming thereof.

Title (de)

Modul zur Wärmeisolierung für einen elektrischen Ofen und seine Herstellung.

Title (fr)

Module d'isolation thermique pour four électrique et sa fabrication.

Publication

EP 0072081 A1 19830216 (EN)

Application

EP 82301213 A 19820310

Priority

- US 28981181 A 19810803
- US 28981281 A 19810803

Abstract (en)

A terminal-insulating module for use in an electric furnace consists of a refractory fibre mat (11) formed of discrete refractory fibres bonded together by an inorganic bonding agent and having a hot face (21), a cold face, and a plurality of side faces (25). A plurality of individual ceramic supports are partially embedded in the mat (11) and protrude outward from the hot face (21). The embedded portions are shaped so as to be firmly anchored within the mat (11), and the protruding portions (33, 35) are shaped to support an electrical resistance heating ribbon in the interior of the furnace. The modules are preferably formed in a felting box where the ceramic supports extend horizontally from cavities in the front wall. The layers of fibres build up upon a bottom screen in planes perpendicular to the hot face (21) of the module (11).

IPC 1-7

F27D 11/02; H05B 3/66; F27D 1/06

IPC 8 full level

F27D 1/00 (2006.01); **F27D 1/06** (2006.01); **F27D 11/02** (2006.01); **H05B 3/66** (2006.01)

CPC (source: EP)

F27D 1/0036 (2013.01); **F27D 1/06** (2013.01); **F27D 11/02** (2013.01); **H05B 3/66** (2013.01)

Citation (search report)

- US 3987237 A 19761019 - PHILLIPS ROBERT J, et al
- US 3705253 A 19721205 - HICKS GERALD W
- GB 2033559 A 19800521 - MCKECHNIE REFRACTORY FIBRES
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- DE 736092 C 19430607 - SIEMENS AG

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CN106091669A; EP3029404A1

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AT BE CH DE FR IT LI NL SE

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EP 0072081 A1 19830216; DK 201882 A 19830204; FI 822096 A0 19820611; FI 822096 L 19830204; GB 2103346 A 19830216; GB 2103346 B 19851023; NO 822613 L 19830204

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