

Title (en)

Electric heating furnace with low thermal inertia.

Title (de)

Elektrisch beheizter Ofen mit geringer thermischer Trägheit.

Title (fr)

Four à chauffage électrique ayant une faible inertie thermique.

Publication

EP 0048645 A1 19820331 (FR)

Application

EP 81401335 A 19810824

Priority

FR 8020269 A 19800919

Abstract (en)

1. A furnace heated by electric resistors, comprising an insulating wall retained by a frame, electric resistor supports being disposed on the face of the said wall, which face is directed towards the interior of the furnace, characterized in that the insulating wall is formed by an assembly of modular elements (37) made from a heat-insulating material having low mechanical resistance and low thermal inertia, the resistor supports (27) being arranged at the level of the horizontal joint faces of the assembled modular elements (37) and being constituted by rigid refractory plates (31) assembled adjacent one another and horizontally, each plate (31) being supported by at least one rigid bearing member (28, 40) arranged inside a modular element (29, 37) of the wall, the said member resting on the plate (31) which is at right angles with the latter at a lower level, the plates (31), which are at the lowest level, being supported by a bearing member (28) which rests on the frame (1) of the furnace.

Abstract (fr)

L'invention a trait à un four à chauffage électrique et à faible inertie thermique. Dans ce four, la paroi calorifuge est constituée d'un assemblage d'éléments modulaires (37) réalisé en un matériau thermiquement isolant, à faible résistance mécanique et faible inertie thermique. Les supports de résistance (27) sont constitués de plaquettes réfractaires (31) assemblées côte à côte horizontalement et soutenues par au moins un organe porteur rigide (28, 40) disposé à l'intérieur d'un élément modulaire (29, 37) de la paroi, ledit organe reposant sur la plaquette (31) inférieure et, de proche en proche, sur le châssis du four.

IPC 1-7

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

IPC 8 full level

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

CPC (source: EP)

F27D 1/066 (2013.01); **F27D 11/02** (2013.01); **H05B 3/66** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

BE DE GB IT NL SE

DOCDB simple family (publication)

EP 0048645 A1 19820331; **EP 0048645 B1 19840404**; DE 3162977 D1 19840510; FR 2490797 A1 19820326; FR 2490797 B1 19831216

DOCDB simple family (application)

EP 81401335 A 19810824; DE 3162977 T 19810824; FR 8020269 A 19800919