

Title (en)

GRAPHITE HOLDING DEVICE FOR HEATING BARS IN INDUSTRIAL FURNACES

Publication

**EP 0294623 A3 19890322 (DE)**

Application

**EP 88107929 A 19880518**

Priority

DE 3719045 A 19870606

Abstract (en)

[origin: JPS646390A] PURPOSE: To maintain mechanical resistance of supporting members by constructing the supporting members from circular rings or circular ring portions formed with flexible graphite laminated plates and making the layered structure of the laminates vertical with respect to the axes of heating rods. CONSTITUTION: Two heating rods 2 are fixed to respective supporting members 1, which have both ends formed of graphite laminates, with nuts 3 and locking nuts 4. In this case, the supporting members 1 have holes made at the fixed positions. The supporting members 1 themselves are fixed to the peripheral wall of a furnace via a graphite block 5, passing through a furnace insulating layer 6. The layered structure of the graphite laminate extends in the vertical direction of the heating rod. In this way, the mechanical resistance of the supporting members can be maintained.

IPC 1-7

**H05B 3/66**

IPC 8 full level

**F27D 11/02** (2006.01); **H05B 3/02** (2006.01); **H05B 3/64** (2006.01); **H05B 3/66** (2006.01)

CPC (source: EP US)

**H05B 3/66** (2013.01 - EP US)

Citation (search report)

- [A] FR 1121392 A 19560813
- [A] US 3476862 A 19691104 - CYRWAY EDWARD N JR, et al
- [A] US 1873053 A 19320823 - SHAW HAROLD N
- [XP] DE 8708084 U1 19870806
- [A] FR 1271869 A 19610915 - BALZERS HOCHVAKUUM
- [A] FR 1513935 A 19680216 - EFCO FURNACES LTD
- [A] FR 1491108 A 19670804 - AUSTRALLIAN ATOMIC ENERGY COMM

Designated contracting state (EPC)

AT CH DE FR GB IT LI LU SE

DOCDB simple family (publication)

**EP 0294623 A2 19881214; EP 0294623 A3 19890322; EP 0294623 B1 19911121**; AT E69683 T1 19911215; BG 49510 A3 19911115; BR 8802680 A 19881227; DE 3719045 A1 19881215; DE 3866287 D1 19920102; FI 87966 B 19921130; FI 87966 C 19930310; FI 882207 A0 19880511; FI 882207 A 19881207; IN 168656 B 19910518; JP S646390 A 19890110; US 4870256 A 19890926

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