

Title (en)

Device for supporting electrical heating conductors in industrial furnaces.

Title (de)

Vorrichtung zur Halterung von elektrischen Heizleitern in Industrieöfen.

Title (fr)

Dispositif pour supporter des conducteurs chauffants électriques dans des fours industriels.

Publication

**EP 0331880 A1 19890913 (DE)**

Application

**EP 89100701 A 19890117**

Priority

DE 3807721 A 19880309

Abstract (en)

In a device for supporting meandering electrical heating conductors on the hot side of thermally insulating moulded bodies, consisting of ceramic fibres, in industrial furnaces, the heating conductors are supported by anchors in the regions of their bends, which anchors are arranged on the moulded bodies. In order to increase the positional security it is proposed that heating conductor supports be provided which are arranged between the bends (4) of the heating conductors (2) and at a distance from the bends (4), said supports being anchored in the moulded bodies (1) and engaging at least on the sides of the heating conductors (2) facing away from the hot side of the moulded bodies (1). <IMAGE>

Abstract (de)

Bei einer Vorrichtung zur Halterung mäanderförmiger, elektrischer Heizleiter an der heißen Seite von thermisch isolierenden Formkörpern aus keramischen Fasern in Industrieöfen sind die Heizleiter in den Bereichen ihrer Umlenkungen von Ankern gehalten, die an den Formkörpern angeordnet sind. Zur Erhöhung der Lagesicherheit wird vorgeschlagen, zwischen den Umlenkungen (4) der Heizleiter (2) und mit Abstand von den Umlenkungen (4) angeordnete, in den Formkörpern (1) verankerte und mindestens an den der heißen Seite der Formkörper (1) abgewandten Seiten der Heizleiter (2) angreifende Heizleiter-Halterungen vorzusehen.

IPC 1-7

**H05B 3/66**

IPC 8 full level

**H05B 3/66** (2006.01)

CPC (source: EP)

**H05B 3/66** (2013.01)

Citation (search report)

- [A] US 1459801 A 19230626
- [A] US 4443881 A 19840417 - NORTHCUTT DONALD R [US]
- [A] DE 2646890 B1 19780202 - DEGUSSA
- [A] FR 2382662 A1 19780929 - SAUDER INDUSTRIES [US]
- [XP] DE 8803184 U1 19880505
- [A] FR 683770 A 19300617 - THOMSON HOUSTON COMP FRANCAISE
- [A] US 1861947 A 19320607 - WOODSON JAMES C, et al
- [A] FR 2152048 A5 19730420 - WILSON ENG CO INC LEE
- [A] US 4573164 A 19860225 - GNUTZMANS OZIAS A [BR]
- [A] US 1767172 A 19300624 - COPE FRANK T

Cited by

EP0341441A3; JP2016531379A; US2010278208A1; US8494026B2; US10251217B2

Designated contracting state (EPC)

AT CH FR GB IT LI SE

DOCDB simple family (publication)

**EP 0331880 A1 19890913; EP 0331880 B1 19931103**; AT E96973 T1 19931115; DE 3807721 A1 19890928; DE 3807721 C2 19891221

DOCDB simple family (application)

**EP 89100701 A 19890117**; AT 89100701 T 19890117; DE 3807721 A 19880309