

Title (en)
Heating element for crucible

Title (de)
Heizelement zum Beheizen von Schmelzriegeln

Title (fr)
Élément de chauffage pour creuset

Publication
EP 0690661 A1 19960103 (DE)

Application
EP 95109670 A 19950622

Priority
DE 4423196 A 19940701

Abstract (en)
An element heats the contents of a crucible and consists of a cylindrical hollow body (5) which is a series of meandering sections (7) each separated from the adjacent section by a slit (6). The novelty is that transitional zone from one section to the next is rounded. The margins (9) of the curved (7) meandering sections are of radius R whose dimension is approximately the same as the cross-section length L of one half (7a) of the meandering section.

Abstract (de)
Die Erfindung betrifft ein Heizelement zum Beheizen von Schmelzriegeln, bestehend aus einem zylinderförmigen Hohlkörper, der durch Schlitz in meanderförmige Segmente geteilt ist. Um ein verbessertes Heizelement zu entwickeln, das weniger verschleißanfällig ist und das zur Zucht von Einkristallen geeigneter ist, wird vorgeschlagen, die Übergänge zwischen den Seitenflächen der Meander zu runden.

IPC 1-7
H05B 3/62; F27D 11/02

IPC 8 full level
F27B 14/14 (2006.01); **F27D 11/02** (2006.01); **H05B 3/62** (2006.01)

CPC (source: EP US)
F27D 11/02 (2013.01 - EP US); **H05B 3/62** (2013.01 - EP US)

Citation (search report)

- [X] US 2650254 A 19530825
- [A] US 2640861 A 19530602 - KREMERS HARRY C
- [A] DE 2064961 A1 19710902 - ANVAR
- [A] EP 0080013 A1 19830601 - ULTRA CARBON CORP [US]

Designated contracting state (EPC)
DE GB IT

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