

Title (en)
MoSi2-based heating element and method for manufacturing the same

Title (de)
Heizelement mit MoSi2-Basis und Herstellungsverfahren dafür

Title (fr)
Élément chauffant à base MoSi2 et sa méthode de conception

Publication
EP 1026920 A2 20000809 (EN)

Application
EP 00300768 A 20000201

Priority
JP 4278099 A 19990222

Abstract (en)
There is provided an MoSi2-based heating element having improved durability, and a method for inhibiting the formation of defects during the processes for manufacturing such an MoSi2-based heating element. The MoSi2-based heating element is a heating element containing 70% or more MoSi2 in which the difference between the average density of the entire heating element and the density of the central portion corresponding to one fifth of the diameter of the heating element (true density ratio) is 5% or less, preferably 3% or less. In the process of temporary sintering, sintering is performed in a temperature pattern of an adequately adjusted temperature raising rate. <IMAGE>

IPC 1-7
H05B 3/14

IPC 8 full level
B22F 3/14 (2006.01); **C04B 35/58** (2006.01); **C04B 35/64** (2006.01); **H05B 3/14** (2006.01)

CPC (source: EP)
H05B 3/148 (2013.01); **H05B 2203/018** (2013.01)

Designated contracting state (EPC)
SE

DOCDB simple family (publication)
EP 1026920 A2 20000809; **EP 1026920 A3 20020410**; **EP 1026920 B1 20070822**; CN 1162045 C 20040811; CN 1294833 A 20010509; JP 2000243538 A 20000908; JP 3070742 B1 20000731; WO 0051399 A1 20000831

DOCDB simple family (application)
EP 00300768 A 20000201; CN 00800192 A 20000217; JP 0000895 W 20000217; JP 4278099 A 19990222