

Title (en)

MoSi₂-based coil heater and tubular heater module having the same

Title (de)

MoSi₂-basiertes Wendelheizer und Rohrheizkörpermodul damit

Title (fr)

Chauffage de bobine à base mosi₂ et module de chauffage tubulaire doté de celui-ci

Publication

EP 2701458 A1 20140226 (EN)

Application

EP 13306161 A 20130821

Priority

JP 2012184115 A 20120823

Abstract (en)

The invention is directed to an MoSi₂ -based coil heater including a coil having an inner diameter (D) not smaller than 300 mm, in which the inner diameter (D) of the coil and an interheater distance (t) satisfy the following condition: $0.9 \leq t / D \leq 2.1$.

IPC 8 full level

H05B 3/14 (2006.01); **H05B 3/64** (2006.01)

CPC (source: EP KR)

H05B 3/141 (2013.01 - EP); **H05B 3/40** (2013.01 - KR); **H05B 3/56** (2013.01 - KR); **H05B 3/64** (2013.01 - EP); **H05B 2203/018** (2013.01 - EP)

Citation (applicant)

JP H08143365 A 19960604 - RIKEN KK

Citation (search report)

- [A] US 5763856 A 19980609 - OHKASE WATARU [JP]
- [A] US 3812324 A 19740521 - FAFFAELLI J, et al
- [A] WO 2008108712 A1 20080912 - SANDVIK INTELLECTUAL PROPERTY [SE], et al
- [A] US 2007145038 A1 20070628 - VISSA RAMGOPAL [US], et al
- [A] JP 2005175366 A 20050630 - SEIKO EPSON CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2701458 A1 20140226; **EP 2701458 B1 20161214**; CN 103634953 A 20140312; CN 103634953 B 20150610; JP 2014041784 A 20140306; JP 5508487 B2 20140528; KR 101439051 B1 20140905; KR 20140026303 A 20140305

DOCDB simple family (application)

EP 13306161 A 20130821; CN 201310369681 A 20130822; JP 2012184115 A 20120823; KR 20130100481 A 20130823