

Title (en)
TUBULAR HEATER AND HEATING DEVICE

Title (de)
ROHRHEIZKÖRPER UND HEIZVORRICHTUNG

Title (fr)
ÉLÉMENT CHAUFFANT TUBULAIRE ET DISPOSITIF DE CHAUFFAGE

Publication
EP 2782416 A4 20150617 (EN)

Application
EP 12849842 A 20120924

Priority
• JP 2011249484 A 20111115
• JP 2012074429 W 20120924

Abstract (en)
[origin: EP2782416A1] A tubular heater 1 of an embodiment includes: an elongated glass tube 10; a filament 3 arranged so as to extend along a tube axis in an interior of the glass tube 10; and a plurality of anchors 4 mounted on the filament 3, wherein the anchor 4 includes an engaging portion 41 connected to the filament, an extending portion 42 connected at one end thereof to the engaging portion 41 and extending at the other end thereof in a direction of a tube wall of the glass tube 10, and a holding portion 43 formed so as to extend from the other end of the extending portion 42 along the tube wall, and the holding portion 43 has a center angle \pm at a center C of the glass tube 10 satisfying a relationship of $180^\circ \neq \pm < 360^\circ$. Accordingly, a reduction of the amount of usage of a metal wire which constitutes the anchor is achieved.

IPC 8 full level
H05B 3/06 (2006.01); **G03G 15/20** (2006.01); **H01K 1/18** (2006.01); **H01K 1/24** (2006.01); **H05B 3/00** (2006.01); **H05B 3/44** (2006.01)

CPC (source: EP)
G03G 15/2053 (2013.01); **H01K 1/18** (2013.01); **H01K 1/24** (2013.01); **H05B 3/0038** (2013.01)

Citation (search report)
• [X] JP S5914265 U 19840128
• [XY] JP S518301 Y
• [I] JP H0431251 U 19920313
• [Y] US 2006192470 A1 20060831 - BONNIN MICHELLE [FR], et al
• See references of WO 2013073289A1

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

DOCDB simple family (publication)
EP 2782416 A1 20140924; **EP 2782416 A4 20150617**; CN 103797891 A 20140514; JP 5725199 B2 20150527; JP WO2013073289 A1 20150402; WO 2013073289 A1 20130523

DOCDB simple family (application)
EP 12849842 A 20120924; CN 201280045253 A 20120924; JP 2012074429 W 20120924; JP 2013544171 A 20120924