

Title (en)

Electric wire heating element and method of making it.

Title (de)

Verfahren zur Herstellung eines elektrischen Drahtheizelementes sowie Drahtheiz-Element, welches nach diesem Verfahren herstellbar ist.

Title (fr)

Élément chauffant électrique en fil métallique et son procédé de fabrication.

Publication

EP 0104344 A1 19840404 (DE)

Application

EP 83107098 A 19830720

Priority

DE 3232291 A 19820831

Abstract (en)

1. A method of producing an electrical wire heating element for heating a stream of air (B) flowing round the wire heating element, having an element former receiving a heating conductor winding and consisting of a plurality of supporting plates (1, 2, 3, 4) of heat-resistant insulating material of the same shape and edge length disposed in the form of a cross or a star in relation to one another, having a heating conductor (5) in the form of wire which is wound on the supporting plates (1, 2, 3, 4) and is constructed in meandering or zigzag form or in the form of a wave band and which is in contact with radially external edges of the supporting plates (1, 2, 3, 4), wherein the next supporting plate in each case in the direction of winding A is disposed displaced by an amount (a1) in the longitudinal direction of the stream of air (B) in relation to the particular supporting plate disposed in front of it, characterised in that, after being wound with the heating conductor (5), the supporting plates (2, 3, 4) are displaced in the longitudinal direction in relation to one another until their edges (6, 7, 8, 9) facing the stream of air lie in one plane.

Abstract (de)

Verfahren zur Herstellung eines elektrischen Drahtheiz-Elementes, wobei der Heizleiterträger aus mehreren im Winkel aneinanderstoßenden Trägerplatten besteht. Diese Trägerplatten 1, 2, 3 und 4 sind zum Bewickeln mit dem Heizleiter 5 jeweils um ein Maß a (= a1; a2 = 2 × a1 usw.) gegeneinander in Luftstrom-Richtung B versetzt angeordnet. Nach dem Bewickeln werden die Trägerplatten 2, 3 und 4 entgegen der Luftstrom-Richtung B so verschoben, daß ihre Kanten 7, 8, 9 mit der Kante 6 der Trägerplatte 1 in gleicher Ebene liegen.

IPC 1-7

H05B 3/16; F24H 3/04; A47K 10/48; A45D 20/08

IPC 8 full level

A45D 20/08 (2006.01); **A47K 10/48** (2006.01); **F24H 3/04** (2006.01); **H05B 3/16** (2006.01)

CPC (source: EP)

H05B 3/16 (2013.01)

Citation (search report)

- EP 0038414 A1 19811028 - BRAUN AG [DE]
- DE 2128157 A1 19720224 - SUHL ELEKTROGERAETE VEB K
- US 1490088 A 19240415 - BRIDGES LEWIS B
- DE 1540731 A1 19691211 - EICHENAUER FA FRITZ

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

DE 3232291 A1 19840301; DE 3370741 D1 19870507; EP 0104344 A1 19840404; EP 0104344 B1 19870401

DOCDB simple family (application)

DE 3232291 A 19820831; DE 3370741 T 19830720; EP 83107098 A 19830720