

Title (en)

A heating element and a method for manufacturing the same.

Title (de)

Heizelement und Verfahren zu seiner Herstellung.

Title (fr)

Élément de chauffage et procédé pour sa fabrication.

Publication

EP 0475427 B1 19941130 (EN)

Application

EP 91115541 A 19910913

Priority

- JP 24435790 A 19900914
- JP 25966990 A 19900927

Abstract (en)

[origin: EP0475427A1] A heating element (1) for a cooking apparatus or a heating apparatus is manufactured by forming aluminium layers on a nickel or nickel-base alloy base or forming nickel layers and then aluminium layers on a metal base (2), and by oxidizing the aluminium layers into an aluminium oxide layers. At the oxidizing step, nickel-aluminium alloy layers with high corrosion resistance are also produced. Only aluminium layers, not nickel layers, may be formed on a metal base and oxidized into aluminium oxide layers to obtain a heating element with relatively low but practical corrosion resistance. The resultant heating element by any of the above processes which does not require a cover or other protection against corrosion is formed into a sheet and heated to provide radiation of about 800 DEG C. <IMAGE>

IPC 1-7

H05B 3/10

IPC 8 full level

H05B 3/12 (2006.01); **H05B 3/30** (2006.01)

CPC (source: EP KR)

A47D 13/025 (2013.01 - EP); **H05B 3/12** (2013.01 - EP); **H05B 3/20** (2013.01 - KR); **H05B 3/30** (2013.01 - EP)

Cited by

EP0771882A1; US5976708A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0475427 A1 19920318; **EP 0475427 B1 19941130**; AU 630306 B2 19921022; AU 8384391 A 19920611; BR 9103944 A 19920526; CA 2051231 A1 19920315; DE 69105419 D1 19950112; DE 69105419 T2 19950629; KR 920007494 A 19920428; KR 940005461 B1 19940618

DOCDB simple family (application)

EP 91115541 A 19910913; AU 8384391 A 19910912; BR 9103944 A 19910913; CA 2051231 A 19910912; DE 69105419 T 19910913; KR 910016044 A 19910914