

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 A1 19920318 (EN)**

Application

**EP 91115541 A 19910913**

Priority

- JP 24435790 A 19900914
- JP 25966990 A 19900927

Abstract (en)

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)

Citation (search report)

- [A] GB 1222504 A 19710217 - TRANSYSTEMS LTD
- [A] PATENT ABSTRACTS OF JAPAN, unexamined applications, M section, vol. 1, no. 164, December 23, 1977 THE PATENT OFFICE JAPANESE GOVERNMENT page 6056 M 77

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EP0771882A1; US5976708A

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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

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