

Title (en)

HEATING DEVICE COATED WITH A SELF-CLEANING COATING

Title (de)

MIT EINER SELBSTREINIGENDEN BESCHICHTUNG BESCHICHTETES HEIZGERÄT

Title (fr)

APPAREIL CHAUFFANT RECOUVERT D UN REVETEMENT AUTONETTOYANT

Publication

EP 1567807 A1 20050831 (FR)

Application

EP 03786028 A 20031120

Priority

- FR 0303429 W 20031120
- FR 0215360 A 20021205

Abstract (en)

[origin: US2006151474A1] The invention relates to a heating device (1) comprising a metallic substrate (2) whose at least one part is coated with a self-cleaning coating. The inventive coating consists of an external layer (4) contacting ambient air and comprising at least one type of oxidation catalyst selected from platinoid oxides, at least one internal layer (3) which is arranged between the metallic substrate and the external layer and comprises at least one type of oxidation catalyst selected from transition elements oxides of 1 b group. The inventive heating device can be embodied, for instance in the form of an iron soleplate consisting of a heating base (6) provided with heating elements (7) or a cooking appliance. Said metallic substrate can be covered with an intermediary enamel layer (5). A method for coating the metallic substrate of a heating device with said coating is also disclosed.

IPC 1-7

F24C 15/00; **D06F 75/38**; **C23C 28/04**; **F24C 14/00**

IPC 8 full level

C23C 26/00 (2006.01); **C23C 28/04** (2006.01); **D06F 75/38** (2006.01); **F24C 15/00** (2006.01)

CPC (source: EP US)

C23C 26/00 (2013.01 - EP US); **C23C 28/042** (2013.01 - EP US); **D06F 75/38** (2013.01 - EP US); **F24C 15/005** (2013.01 - EP US)

Citation (search report)

See references of WO 2004061371A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006151474 A1 20060713; **US 7339142 B2 20080304**; AT E377176 T1 20071115; AU 2003295034 A1 20040729; AU 2003295034 B2 20081211; BR 0317056 A 20051025; BR 0317056 B1 20140304; CA 2508750 A1 20040722; CA 2508750 C 20110222; CN 1316202 C 20070516; CN 1717565 A 20060104; DE 60317233 D1 20071213; DE 60317233 T2 20080807; EP 1567807 A1 20050831; EP 1567807 B1 20071031; ES 2295676 T3 20080416; FR 2848290 A1 20040611; FR 2848290 B1 20050107; HK 1081638 A1 20060519; JP 2006513747 A 20060427; JP 4358749 B2 20091104; MX PA05005918 A 20050826; PT 1567807 E 20080125; RU 2005121142 A 20060120; RU 2323287 C2 20080427; WO 2004061371 A1 20040722

DOCDB simple family (application)

US 53605005 A 20050523; AT 03786028 T 20031120; AU 2003295034 A 20031120; BR 0317056 A 20031120; CA 2508750 A 20031120; CN 200380104231 A 20031120; DE 60317233 T 20031120; EP 03786028 A 20031120; ES 03786028 T 20031120; FR 0215360 A 20021205; FR 0303429 W 20031120; HK 06101896 A 20060215; JP 2004564263 A 20031120; MX PA05005918 A 20031120; PT 03786028 T 20031120; RU 2005121142 A 20031120