

Title (en)

HEATING APPLIANCE COVERED WITH A SELF-CLEANING COATING AND PRODUCTION METHOD THEREOF

Title (de)

MIT EINER SELBSTREINIGENDEN BESCHICHTUNG BEDECKTE HEIZANWENDUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

APPAREIL CHAUFFANT RECOUVERT D'UN REVETEMENT AUTONETTOYANT ET SON PROCEDE DE FABRICATION

Publication

EP 2646616 A1 20131009 (FR)

Application

EP 11801788 A 20111129

Priority

- FR 1059868 A 20101129
- FR 2011052809 W 20111129

Abstract (en)

[origin: WO2012072944A1] The present invention relates to a heating appliance (1) including a metal substrate (2), at least a part of which is covered with a self-cleaning coating including at least one oxidation catalyst selected from the platinum oxides, and at least one dopant of said oxidation catalyst selected from the rare-earth oxides. According to the invention, the self-cleaning coating (4) is a bilayer coating including: an inner layer (3) at least partially covering the metal substrate (2) and including the dopant; and an outer layer (4) in contact with the ambient air and including the oxidation catalyst. The present invention also relates to a method for producing such a heating appliance.

IPC 8 full level

D06F 75/38 (2006.01); **C23C 18/12** (2006.01); **F24C 15/00** (2006.01)

CPC (source: EP US)

C23C 18/1216 (2013.01 - EP US); **C23C 18/1225** (2013.01 - EP US); **C23C 18/1258** (2013.01 - EP US); **C23C 18/1291** (2013.01 - EP US); **C23C 18/1295** (2013.01 - EP US); **D06F 75/24** (2013.01 - EP US); **D06F 75/38** (2013.01 - EP US); **F24C 15/005** (2013.01 - EP US); **F27D 5/0006** (2013.01 - EP US)

Citation (search report)

See references of WO 2012072944A1

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)

FR 2968016 A1 20120601; **FR 2968016 B1 20130503**; CN 103237938 A 20130807; CN 103237938 B 20150916; EP 2646616 A1 20131009; EP 2646616 B1 20170802; HK 1185388 A1 20140214; PL 2646616 T3 20171031; RU 2013123485 A 20150110; RU 2568086 C2 20151110; US 2013247430 A1 20130926; US 8745904 B2 20140610; WO 2012072944 A1 20120607

DOCDB simple family (application)

FR 1059868 A 20101129; CN 201180057285 A 20111129; EP 11801788 A 20111129; FR 2011052809 W 20111129; HK 13112099 A 20131028; PL 11801788 T 20111129; RU 2013123485 A 20111129; US 201113989924 A 20111129