

Title (en)

METHOD AND DEVICE FOR PREVENTING ELECTROCHEMICAL CORROSION OF CLOTHES CARE MACHINE HEATER, STEAM GENERATOR, AND CLOTHES CARE MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERHINDERUNG VON ELEKTROCHEMISCHER KORROSION EINES HEIZAGGREGATS EINER KLEIDUNGSPFLEGEMASCHINE, DAMPFERZEUGER UND KLEIDUNGSPFLEGEMASCHINE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR EMPÊCHER LA CORROSION ÉLECTROCHIMIQUE D'UN ÉLÉMENT CHAUFFANT DE MACHINE D'ENTRETIEN DU LINGE, D'UN GÉNÉRATEUR DE VAPEUR, ET D'UNE MACHINE D'ENTRETIEN DU LINGE

Publication

EP 3243932 A4 20180131 (EN)

Application

EP 15876643 A 20151027

Priority

- CN 201510009691 A 20150107
- CN 201510009635 A 20150107
- CN 201520013640 U 20150107
- CN 201520012880 U 20150107
- CN 201520012881 U 20150107
- CN 201510009634 A 20150107
- CN 2015092981 W 20151027

Abstract (en)

[origin: EP3243932A1] A method for preventing electrochemical corrosion of a clothes care machine heater (1). A clothes care machine comprises a steam generator (50) and an output power supply (21). The steam generator (50) is used for generating steam. The output power supply (21) is used for providing a protection current to the steam generator (50). The steam generator (50) comprises a heater (1). The method comprises: installing an electric conductor (22) on the steam generator (50), the electric conductor (22) being in electrical insulation with the heater (1), electrically connecting the heater (1) to a cathode of the output power supply (21), electrically connecting an anode of the output power supply (21) to the electric conductor (22), so that the electric conductor (22) contacts with water in the steam generator (50), to form a current loop, and compensating for electrons lost in the heater (1), to prevent the heater (1) from being corroded due to an electron loss. Further disclosed are a device (10) for preventing electrochemical corrosion of a heater (1), a steam generator (50) comprising the device (10) for preventing electrochemical corrosion of a heater (1), and a clothes care machine comprising the steam generator (50).

IPC 8 full level

C23F 13/06 (2006.01); **D06F 75/24** (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP US)

C23F 13/06 (2013.01 - EP US); **D06F 75/10** (2013.01 - EP); **D06F 75/24** (2013.01 - EP); **F24H 9/45** (2022.01 - EP); **F24H 9/455** (2022.01 - EP US)

Citation (search report)

- [XY] EP 1426467 A1 20040609 - MERLONI TERMOSANITARI SPA [IT]
- [XY] CN 203403154 U 20140122 - QIAN WEI
- [XY] FR 2776370 A1 19990924 - LACAZE PIERRE [FR]
- [XY] US 4975560 A 19901204 - WARDY DAHER T [US], et al
- [Y] WO 2014162245 A1 20141009 - KONINKL PHILIPS NV [NL]
- See references of WO 2016110142A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3243932 A1 20171115; **EP 3243932 A4 20180131**; **EP 3243932 B1 20200603**; WO 2016110142 A1 20160714

DOCDB simple family (application)

EP 15876643 A 20151027; CN 2015092981 W 20151027