

Title (en)

METHOD TO CONTROL THE FUNCTIONING OF A HEATING APPARATUS

Title (de)

VERFAHREN ZUR STEUERUNG DER FUNKTION EINER HEIZUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ POUR COMMANDER LE FONCTIONNEMENT D'UN APPAREIL DE CHAUFFAGE

Publication

EP 2964809 A1 20160113 (EN)

Application

EP 14716929 A 20140307

Priority

- IT UD20130035 A 20130308
- IB 2014059534 W 20140307

Abstract (en)

[origin: WO2014136097A1] Method to control the functioning of a heating apparatus (10), which comprises a tank (12) for containing an electrolytic solution, an electrode (13) immersed in the electrolytic solution, an electric energy generator (14) connected to the electrode (13) and to the tank (12), and a controller (16) provided with a measurer (15) which measures at least one electric quantity which is established between the electrode (13) and the tank (12). The method provides to regulate the electric energy generator (14) to maintain in the electrolytic solution a protection potential (Vp) suitable to guarantee the protection of the tank (12) from corrosion, and comprises at least a step of detecting electric dispersions present in the tank (12) during which the measurer (15) measures at least one electric quantity (Vm1, Vm2; Im), and the controller (16) processes the at least one electric quantity (Vm1, Vm2; Im) to determine the presence of the electric dispersions.

IPC 8 full level

C23F 13/04 (2006.01); **C23F 13/22** (2006.01); **F24H 9/00** (2006.01); **G01N 17/02** (2006.01)

CPC (source: CN EP US)

C23F 13/04 (2013.01 - CN EP); **C23F 13/22** (2013.01 - CN EP); **F24H 9/45** (2022.01 - EP); **F24H 9/455** (2022.01 - CN EP US); **C23F 2213/11** (2013.01 - EP)

Citation (search report)

See references of WO 2014136097A1

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)

WO 2014136097 A1 20140912; CN 105189822 A 20151223; CN 105189822 B 20171114; CN 107686991 A 20180213; CN 107686991 B 20190709; EP 2964809 A1 20160113; EP 2964809 B1 20170111; EP 3170920 A1 20170524; EP 3170920 B1 20190731; ES 2622057 T3 20170705; ES 2752849 T3 20200406; IT UD20130035 A1 20140909; PL 2964809 T3 20170731; PL 3170920 T3 20200331

DOCDB simple family (application)

IB 2014059534 W 20140307; CN 201480026014 A 20140307; CN 201710936904 A 20140307; EP 14716929 A 20140307; EP 16201549 A 20140307; ES 14716929 T 20140307; ES 16201549 T 20140307; IT UD20130035 A 20130308; PL 14716929 T 20140307; PL 16201549 T 20140307