

Title (en)

Container boiler with double cathodic protection

Title (de)

Speicherwassererwärmer mit doppel kathodischer Schützung

Title (fr)

Chauffe-eau électrique à accumulation à double protection cathodique

Publication

EP 2298963 A2 20110323 (FR)

Application

EP 10175913 A 20100909

Priority

FR 0956357 A 20090916

Abstract (en)

The heater (1) has a sacrificial anode (5) surrounding an impressed current anode (6), and a conformation suitable for avoiding contact of the impressed current anode with water of a tank (2) of an electric water heater before consumption of the sacrificial anode. The impressed anode is in electrical contact with the sacrificial anode. Dimensions of the sacrificial anode are greater than the dimensions of the impressed anode. The sacrificial anode is mounted on a support or a retaining sheath (3) by an elastomeric sleeve.

Abstract (fr)

Un chauffe-eau électrique à accumulation à double protection cathodique comporte une anode sacrificielle (5) et une anode (6) à courant imposé associées de manière à fournir une protection cathodique, même en l'absence d'alimentation électrique. L'anode sacrificielle (5) entoure l'anode (6) à courant imposé, de manière à éviter tout contact de l'anode (6) à courant imposé avec l'eau de la cuve (d'eau) avant consommation de l'anode sacrificielle (6).

IPC 8 full level

C23F 13/06 (2006.01); **C23F 13/10** (2006.01); **C23F 13/18** (2006.01); **F24D 19/00** (2006.01); **F24H 1/18** (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP US)

C23F 13/06 (2013.01 - EP US); **C23F 13/10** (2013.01 - EP US); **C23F 13/18** (2013.01 - EP US); **F24D 19/0092** (2013.01 - EP US); **F24H 1/185** (2013.01 - EP US); **F24H 9/455** (2022.01 - EP US); **C23F 2213/21** (2013.01 - EP US)

Citation (applicant)

WO 2007010335 A2 20070125 - MERLONI TERMOSANITARI SPA [IT], et al

Cited by

CN112815531A; CN107614755A

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2298963 A2 20110323; **EP 2298963 A3 20170215**; **EP 2298963 B1 20200422**; CN 102022818 A 20110420; CN 102022818 B 20130605; EG 26267 A 20130605; ES 2804353 T3 20210205; FR 2950081 A1 20110318; FR 2950081 B1 20111209; PL 2298963 T3 20201130; PT 2298963 T 20200710; RU 2010137646 A 20120320; RU 2451882 C1 20120527; UA 96093 C2 20110926; US 2011064392 A1 20110317; US 8649671 B2 20140211

DOCDB simple family (application)

EP 10175913 A 20100909; CN 201010289865 A 20100916; EG 2010091562 A 20100916; ES 10175913 T 20100909; FR 0956357 A 20090916; PL 10175913 T 20100909; PT 10175913 T 20100909; RU 2010137646 A 20100910; UA A201011100 A 20100915; US 88322310 A 20100916