

Title (en)

DEVICE FOR THE CATHODIC PROTECTION OF A METAL WALL AGAINST CORROSION IN A SALINE ENVIRONMENT

Title (de)

VORRICHTUNG ZUM KATHODISCHEN SCHUTZ EINER METALLWAND GEGEN KORROSION IN EINER SALZHALTIGEN UMGEBUNG

Title (fr)

DISPOSITIF DE PROTECTION CATHODIQUE D'UNE PAROI MÉTALLIQUE CONTRE LA CORROSION DANS UN MILIEU SALIN

Publication

**EP 2809830 A1 20141210 (FR)**

Application

**EP 13705736 A 20130131**

Priority

- FR 1250946 A 20120201
- EP 2013051837 W 20130131

Abstract (en)

[origin: CA2862349A1] A device for the cathodic protection of a metal wall (1) against corrosion in a saline environment, comprising an anode and means (4, 5) for connecting said anode to said wall (1), said anode having a higher electrochemical potential than said wall (1), characterised in that said anode is placed in a compartment (6) delimited by a wall permeable to electrons and, optionally, to water, comprising: - a porous outer layer (7) made from a material selected from: polymeric materials, ceramic materials or hydrated inorganic materials; - and at least one porous layer (9, 10) having the ability to collect the cations emitted by the anode during the dissolution of same, the material forming said at least one layer being selected from osmotic membranes, active carbon, a cation exchange resin such as a zeolite, a cation-collecting polymer with nanofillers, cation-collecting mineral compounds such as phyllosilicates and inosilicates, cation-retaining nanofiltering semi-permeable organic microporous membranes.

IPC 8 full level

**C23F 13/06** (2006.01)

CPC (source: EP US)

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