

Title (en)

ELECTROCHEMICAL TREATMENT METHOD AND DEVICE FOR SOFTENING WATER

Title (de)

ELEKTROCHEMISCHE BEHANDLUNGSMETHODE UND VORRICHTUNG ZUR WASSERENTHÄRTUNG

Title (fr)

PROCEDE ET DISPOSITIF DE TRAITEMENT ELECTROCHIMIQUE DE L'EAU, EN VUE DE SON ADOUCISSEMENT

Publication

**EP 0813501 A1 19971229 (FR)**

Application

**EP 96906805 A 19960308**

Priority

- FR 9600369 W 19960308
- FR 9502819 A 19950310

Abstract (en)

[origin: WO9628389A1] A method and a device for electrochemically treating water to reduce its degree of hardness, wherein the water to be treated is electrolysed between an anode (5) and a cathode (7, 7') connected to the positive (B) and negative (A) terminals respectively of a current generator (1), each consisting of at least one electrode. A thin porous coating at least partially consisting of calcium carbonate is formed at the cathode (7) and a gas flow is generated through the pores of the cathode (7) as the water is electrolysed so that the crystals at least partially made up of calcium carbonate and formed on said coating during electrolysis are detached therefrom by the gas flow.

IPC 1-7

**C02F 1/46**

IPC 8 full level

**C02F 1/46** (2006.01); **C02F 1/461** (2006.01)

CPC (source: EP US)

**C02F 1/4602** (2013.01 - EP US); **C02F 1/46109** (2013.01 - EP US)

Citation (search report)

See references of WO 9628389A1

Designated contracting state (EPC)

AT BE CH DE ES GB IE IT LI LU MC NL PT

DOCDB simple family (publication)

**WO 9628389 A1 19960919**; AU 5007796 A 19961002; AU 707432 B2 19990708; CA 2215488 A1 19960919; CN 1181746 A 19980513; EP 0813501 A1 19971229; FR 2731420 A1 19960913; FR 2731420 B1 19970613; JP H11501568 A 19990209; RU 2164219 C2 20010320; US 5897765 A 19990427

DOCDB simple family (application)

**FR 9600369 W 19960308**; AU 5007796 A 19960308; CA 2215488 A 19960308; CN 96193299 A 19960308; EP 96906805 A 19960308; FR 9502819 A 19950310; JP 52732996 A 19960308; RU 97116728 A 19960308; US 91305897 A 19970905