

Title (en)

DEVICE FOR PARTIAL ELECTROCHEMICAL TREATMENT OF BAR-SHAPED OBJECTS

Title (de)

VORRICHTUNG ZUM PARTIELLEN ELEKTROCHEMISCHEN BEHANDELN VON STABFÖRMIGEM BEHANDLUNGSGUT

Title (fr)

DISPOSITIF POUR LE TRAITEMENT ELECTROCHIMIQUE PARTIEL D'OBJETS SOUS FORME DE BARRES

Publication

**EP 1115912 B1 20020320 (DE)**

Application

**EP 99950440 A 19990723**

Priority

- DE 9902311 W 19990723
- DE 19837973 A 19980821

Abstract (en)

[origin: US6508926B1] In a device, rod-shaped objects 10 (rods of various length and diameter) are electrochemically partially processed in dip plants (galvanized, pickled). Stationary tubular electrodes 30, into which the rods 10 are centrally entered, are provided in the plating tank of the plant. The surfaces to be plated are each axially limited by an adjustable membrane carrier 26, in which elastic shielding membranes 9 for delimiting the field lines are arranged. The membranes 9 are held by membrane holders 5. The membrane holders 5 are arranged in a cage where they are free to move radially and are provided with inner centering springs 7 and with outer centering springs 19 so that the membrane holder 5 and the membranes 9 are held in such a way as to be self-centering.

IPC 1-7

**C25D 7/04**; **C25F 7/00**

IPC 8 full level

**C25D 7/00** (2006.01); **C25D 5/02** (2006.01); **C25D 7/04** (2006.01); **C25D 17/08** (2006.01); **C25D 17/10** (2006.01); **C25F 7/00** (2006.01)

CPC (source: EP US)

**C25D 5/022** (2013.01 - EP US); **C25D 7/04** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6508926 B1 20030121**; AT E214746 T1 20020415; DE 19837973 C1 20000120; DE 59901033 D1 20020425; EP 1115912 A2 20010718; EP 1115912 B1 20020320; ES 2173001 T3 20021001; JP 2002523625 A 20020730; JP 4317661 B2 20090819; WO 0011245 A2 20000302; WO 0011245 A3 20001109

DOCDB simple family (application)

**US 76341701 A 20010221**; AT 99950440 T 19990723; DE 19837973 A 19980821; DE 59901033 T 19990723; DE 9902311 W 19990723; EP 99950440 A 19990723; ES 99950440 T 19990723; JP 2000566492 A 19990723