

Title (en)

Electrode with catalytic coating for electrochemical processes and manufacture thereof

Title (de)

Elektrode mit katalytischer Beschichtung für elektrochemische Prozesse und Verfahren zu deren Herstellung

Title (fr)

Electrode à recouvrement catalytique pour des processus électrochimiques et procédé de fabrication de celle-ci

Publication

**EP 0867527 B1 20010321 (FR)**

Application

**EP 98500019 A 19980129**

Priority

ES 9700419 A 19970227

Abstract (en)

[origin: EP0867527A1] Catalyst-coated electrodes are claimed for use in electrochemical processes such as chlor-alkali electrolysis, sodium chlorate and hypochlorite production, electrodeposition of metals and manganese dioxide, impressed current cathodic protection, electrochemical organic synthesis, etc. The electrode has an electrolyte-resistant conductive metal substrate with a catalytic coating in the form of superposed layers of different compositions containing a valve metal oxide and at least two platinum group metal oxides. The proportion of platinum group metal oxides wrt. the valve metal oxide increases progressively from the first layer, with a constant molar platinum group metal oxide ratio, up to an external layer which contains only platinum group metal oxides. Also claimed is a process for making the above electrode.

IPC 1-7

**C25B 11/10**

IPC 8 full level

**C25B 11/04** (2006.01); **C25B 11/10** (2006.01)

CPC (source: EP)

**C25B 11/093** (2021.01)

Cited by

KR100787276B1; CN114875440A; CN113816469A; CN114752971A; CN107338452A; US7566389B2; WO2011120702A1; WO2005033367A1; WO2006072169A1; EP2447395A2; DE102010043085A1; DE102017214810A1; US8580091B2; US11668017B2

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