

Title (en)

COATED METAL ELECTRODE WITH IMPROVED BARRIER LAYER AND METHODS OF MANUFACTURE AND USE THEREOF

Publication

EP 0027051 B1 19840711 (EN)

Application

EP 80303526 A 19801007

Priority

GB 7934856 A 19791008

Abstract (en)

[origin: EP0027051A1] An electrode for use in electrolytic processes comprises a substrate of film-forming metal such as titanium having a porous electrocatalytic coating comprising at least one platinum-group metal and/or oxide thereof possibly mixed with other metal oxides in an amount of at least about 2 g/m² of the platinum-group metal(s) per projected surface area of the substrate. Below the coating is a preformed barrier layer constituted by a surface oxide film grown up from the substrate. This preformed barrier layer has rhodium and/or iridium as metal or compound incorporated in the surface oxide film during formation thereof in an amount of up to 1 g/m² (as metal) per projected surface area of the substrate.

IPC 1-7

C25B 11/10; **C25B 1/34**; **C25D 17/10**; **C23C 15/00**

IPC 8 full level

C25B 11/00 (2006.01); **C23C 18/12** (2006.01); **C25B 1/34** (2006.01); **C25B 1/46** (2006.01); **C25B 11/04** (2006.01); **C25B 11/08** (2006.01); **C25B 11/10** (2006.01); **C25D 17/10** (2006.01)

CPC (source: EP KR)

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Cited by

CN102465312A; US5665218A; EP0063540A3; EP0090425A1; GB2342099A; GB2342099B; EP0430893A1; US5141606A; CH649315A5; FR2540141A1; US6251254B1; WO8303265A1; EP0046449B1

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