

Title (en)

Electrolysis cathode and process for manufacturing such a cathode.

Title (de)

Kathode für Elektrolyse und Verfahren zur Herstellung einer solchen Kathode.

Title (fr)

Cathode pour électrolyse et un procédé de fabrication de ladite cathode.

Publication

EP 0240413 A1 19871007 (FR)

Application

EP 87400662 A 19870325

Priority

FR 8604767 A 19860403

Abstract (en)

[origin: US4798662A] A cathode especially useful in the electrolysis of aqueous solutions of alkali metal halides consisting essentially of an electrically conducting substrate and a heterogeneous coating containing a precious metal and/or a precious metal derivative; said heterogeneous coating consisting of at least two coats a and b, coat a being in contact with the substrate and containing at least one of the constituents selected from precious metals, precious metal oxides, or mixtures of precious metal oxides and at least one oxide selected from the oxides of nickel, cobalt, iron, titanium, hafnium, niobium, tantalum or zirconium, and coat b in contact with the electrolyte and with a coat a and selected from a metal of high covering power; and the process of making the cathode.

Abstract (fr)

L'invention concerne des cathodes. Ces cathodes sont constituées par un substrat électriquement conducteur portant un revêtement hétérogène comprenant au moins une couche de métal précieux et/ou d'oxyde dudit métal et au moins une couche métallique à fort pouvoir couvrant. Les cathodes sont particulièrement utilisables dans les cellules d'électrolyse de l'eau ou des solutions aqueuses d'halogénures de métaux alcalins, cellules utilisant la technologie membrane.

IPC 1-7

C25B 11/06

IPC 8 full level

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CPC (source: EP KR US)

C25B 11/00 (2013.01 - KR); **C25B 11/091** (2021.01 - EP US)

Citation (search report)

- [A] FR 2311108 A1 19761210 - HODOGAYA CHEMICAL CO LTD [JP]
- [A] FR 2265454 A2 19751024 - UHDE GMBH FRIEDRICH [DE]

Cited by

FR2775486A1; WO9945175A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

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