

Title (en)

Anodes with extended service life and methods for their manufacturing.

Title (de)

Anoden mit erhöhter Lebensdauer und Verfahren zu ihrer Herstellung.

Title (fr)

Anodes présentant une longévité élevée et leurs procédés de fabrication.

Publication

EP 0538955 A1 19930428 (EN)

Application

EP 92203226 A 19921020

Priority

NL 9101753 A 19911021

Abstract (en)

Anodes for the generation of electrochemical processes, consisting of a support and an electrocatalytically active top-layer which contains iridium-oxide; a method for producing them and an electrochemical cell in which the anode is applied. The lifetime of such anodes may be prolonged substantially by choosing the oxygen/iridium-ratio between 2.1 and 2.9, the average particle size of the iridium-oxide being between 3 and 100 nm. The lifetime may be prolonged even further by the presence of an intermediate layer, between support and top-layer, consisting of an oxide of Ta, Nb, Co or Pb or of a mixture thereof, if desired mixed with other metal-oxides. This intermediate layer affixes either directly to the support and the top-layer, or indirectly, via one or more additional intermediate layers.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

C23F 13/12 (2013.01); **C25B 11/093** (2021.01); **C25C 7/02** (2013.01)

Citation (search report)

- [X] DE 3731285 A1 19890406 - CONRADTY METALLELEK [DE]
- [XD] GB 2239260 A 19910626 - TDK CORP [JP]
- [A] FR 2599050 A1 19871127 - PERMELEC ELECTRODE LTD [JP]

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