

Title (en)

Novel rhodium based amorphous metal alloys and use thereof as halogen electrodes.

Title (de)

Amorphe Metall-Legierungen auf der Basis von Rhodium und Verwendung derselben als Halogen-Elektroden.

Title (fr)

Alliages métalliques amorphes à base de rhodium et leur utilisation comme électrodes dégageant du chlore.

Publication

EP 0209264 A1 19870121 (EN)

Application

EP 86304802 A 19860623

Priority

US 74799885 A 19850624

Abstract (en)

Novel rhodium based amorphous metal alloys having the formula RhrAa where: A is B, P, As and mixtures thereof; r is from about 50 to 96 percent; and a is from about 4 to 50 percent. Novel rhodium based amorphous metal alloys are also based on the formula RhrBbDd where: D is Ir, Pd, Ru, Ti, Zr, Nb, Ta, Y, Hf and mixtures thereof; r is from about 50 to 96 percent; b is from about 4 to 50 percent; and d is from about 0 to 60 percent; and r + b + d = 100. Novel process for the generation of halogens from halide-containing solutions can be performed by employing the rhodium based metal alloys of the present invention.

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IPC 8 full level

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CPC (source: EP KR)

C22C 38/50 (2013.01 - KR); **C22C 45/003** (2013.01 - EP); **C25B 11/04** (2013.01 - EP); **C25B 11/091** (2021.01 - EP)

Citation (search report)

- GB 2146660 A 19850424 - DAIKI ENGINEERING CO, et al
- US 4339270 A 19820713 - HASHIMOTO KOJI, et al
- US 4560454 A 19851224 - HARRIS JONATHAN H [US], et al
- CHEMICAL ABSTRACTS, vol. 96, no. 12, March 22, 1982, Columbus, Ohio, USA TOYO SODA MFG. CO.: "Amorphous platinum metal alloys as electrodes for aqueous alkali chloride electrolysis" page 582, column 1, abstract-no. 94 052a & JP-A 81 150 148 (20-111981)

Cited by

GB2529064A; US6607787B2

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