Title (en)

USE OF A LEAD ALLOY FOR THE ANODES IN THE ELECTROLYTIC PRODUCTION OF ZINC

Publication

EP 0034391 B1 19830824 (DE)

Application

EP 81200163 A 19810211

Priority

DE 3005674 A 19800215

Abstract (en)

[origin: US4364807A] A lead alloy anode for a cell for the electrowinning or electrolytic recovery of zinc consists of 0.05 to 0.25% by weight strontium and/or 0.05 to 0.1% by calcium in combination with 0.1 to 0.5 silver, balance lead. The cell is used in a method for the recovery of zinc at, for example, a current density of 160 to 630 amp/m2, a temperature of 30 DEG to 46 DEG C. and an electrolyte containing 40 to 70 g/l zinc and 165 to 220 g/l sulfuric acid.

IPC 1-7

C25C 1/16; C25C 7/02; C22C 11/02

IPC 8 full level

C22C 11/00 (2006.01); **C22C 11/02** (2006.01); **C25C 1/16** (2006.01); **C25C 7/02** (2006.01); **C25D 17/10** (2006.01)

CPC (source: EP US)

C22C 11/00 (2013.01 - EP US); **C25C 1/16** (2013.01 - EP US); **C25C 7/02** (2013.01 - EP US)

Citation (examination)

- Czoka et Papahadjoupoulos Ann. Rev. BioPhys. BioEng. 1980 9:467-508, pp 467,485,486 (2ex.)
- Pagano et Weinstein Ann.Rev. BioPhys. BioEng. 1978 7:435-68
- H Kremer et al Biochemistry vol. 16 no.17 1977
- D Dreamer et al Biochimica et Biophysica Acta 443 (1976) pp 629-634

Cited by

EP0090435A1; EP0052106A4; FR2691649A1; US5549811A; FR2575109A1; WO0042241A1; WO9324250A1; WO9324249A1; WO2014029848A1

Designated contracting state (EPC)

BE DE FR IT NL

DOCDB simple family (publication)

EP 0034391 A1 19810826; **EP 0034391 B1 19830824**; AU 538729 B2 19840823; AU 6728681 A 19810820; DE 3005674 A1 19810820; DE 3160775 D1 19830929; ES 499435 A0 19870601; ES 8704552 A1 19870601; FI 65821 B 19840330; FI 65821 C 19840710; FI 810395 L 19810816; JP S56127743 A 19811006; JP S6323274 B2 19880516; NO 153976 B 19860317; NO 153976 C 19860625; NO 810416 L 19810817; US 4364807 A 19821221

DOCDB simple family (application)

EP 81200163 A 19810211; AU 6728681 A 19810213; DE 3005674 A 19800215; DE 3160775 T 19810211; ES 499435 A 19810213; FI 810395 A 19810211; JP 2001281 A 19810213; NO 810416 A 19810206; US 23349181 A 19810211