

Title (en)

Alloys of metals with high melting points, suitable for transformation into homogeneous and pure ingots, and preparation process of these alloys.

Title (de)

Legierungen aus Metall mit hohen Schmelzpunkten geeignet für die Umwandlung in homogene und rein Blöcke, und Herstellungsverfahren dieser Legierungen.

Title (fr)

Alliages de métaux réfractaires aptes à la transformation en lingots homogènes et purs et procédés d'obtention des dits alliages.

Publication

EP 0570308 A1 19931118 (FR)

Application

EP 93420192 A 19930511

Priority

FR 9206233 A 19920512

Abstract (en)

These alloys are made up of crystals of the said metals in solid solution which have a particular size and specific surface. They are obtained by coelectrodeposition of the metals in a molten salt bath. In the case where the metals exhibit a difference smaller than 0.5 volt in their deposition potential, the metals are delivered into the bath in the form of chlorides. In the case where this difference is greater than 0.5 volt, the least electronegative metal is delivered in the form of a chloride whereas the most electronegative metal is delivered by means of a soluble electrode. The invention finds its application especially in the production of Nb-Ti and Hf-Zr ingots.

IPC 1-7

C25C 3/36; **C25C 3/26**

IPC 8 full level

C22C 1/02 (2006.01); **C22C 1/00** (2006.01); **C22C 27/00** (2006.01); **C25C 3/36** (2006.01)

CPC (source: EP US)

C25C 3/36 (2013.01 - EP US)

Citation (search report)

- [A] DE 1226311 B 19661006 - UNION CARBIDE CORP
- [A] DE 1077878 B 19600317 - DEUTSCHE NORTON GMBH
- [A] FR 1216255 A 19600425 - INTERNAT METALLURG CORP
- [A] FR 1565784 A 19690502
- [A] US 3637374 A 19720125 - HOLZI ROBERT A, et al
- [A] CHEMICAL ABSTRACTS, vol. 86, no. 8, 21 Février 1977, Columbus, Ohio, US; abstract no. 48583, "Alloys by electrolysis" page 336 ;colonne 1 ;

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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0570308 A1 19931118; **EP 0570308 B1 19961227**; AT E146828 T1 19970115; BR 9301808 A 19940301; DE 69306853 D1 19970206; DE 69306853 T2 19970507; FR 2691169 A1 19931119; FR 2691169 B1 19940701; JP 2863058 B2 19990303; JP H0633161 A 19940208; US 5372659 A 19941213

DOCDB simple family (application)

EP 93420192 A 19930511; AT 93420192 T 19930511; BR 9301808 A 19930511; DE 69306853 T 19930511; FR 9206233 A 19920512; JP 11046593 A 19930512; US 5928793 A 19930511