

Title (en)

COMBINED ELECTRON BEAM AND VACUUM ARC MELTING FOR BARRIER TUBE SHELL MATERIAL

Publication

**EP 0248396 B1 19930428 (EN)**

Application

**EP 87107945 A 19870602**

Priority

US 87118386 A 19860605

Abstract (en)

[origin: EP0248396A2] Process for producing purified zirconium by forming a consumable electrode from a generally virgin sponge of zirconium, melting the consumable electrode in a multiple swept beam electron beam furnace with a feed rate of from 1 to 20 inches per hour and then vacuum arc melting the EB melted material.

IPC 1-7

**C22B 9/16; C22B 34/14**

IPC 8 full level

**C22B 9/20** (2006.01); **C22B 9/22** (2006.01); **C22B 34/14** (2006.01)

CPC (source: EP KR)

**C22B 9/20** (2013.01 - EP); **C22B 9/228** (2013.01 - EP); **C22B 34/14** (2013.01 - EP KR)

Citation (examination)

Winkler et al., VACUUM METALLURGY, 1971, Elsevier, Amsterdam-London-New York; pp. 270, 271, 618, 619, 625, 626#

Cited by

EP0320730A3; US5062887A; US6036741A

Designated contracting state (EPC)

DE ES FR IT SE

DOCDB simple family (publication)

**EP 0248396 A2 19871209; EP 0248396 A3 19900425; EP 0248396 B1 19930428**; DE 3785605 D1 19930603; DE 3785605 T2 19930812; ES 2040712 T3 19931101; KR 880000607 A 19880328

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