

Title (en)

FABRICATION OF ZIRCALOY MILL PRODUCTS FOR IMPROVED MICROSTRUCTURE AND PROPERTIES

Publication

**EP 0495978 A4 19930127 (EN)**

Application

**EP 91916653 A 19910725**

Priority

- US 56257690 A 19900803
- US 72696491 A 19910708

Abstract (en)

[origin: WO9202654A1] A novel process for making zircaloy mill products with improved fabricability and free of large carbide (silicide or phosphide) particles by a high beta phase heat treatment and/or a low beta phase quenching process followed by rapid cooling and/or air annealing after extrusion or primary fabrication. This also provides final product with uniform equiaxed alpha grain structure and improved aqueous steam corrosion resistance.

IPC 1-7

**C22F 1/00**; **G21C 3/06**

IPC 8 full level

**C22F 1/18** (2006.01); **G21C 3/06** (2006.01); **G21C 3/07** (2006.01)

CPC (source: EP)

**C22F 1/186** (2013.01); **G21C 3/07** (2013.01); **Y02E 30/30** (2013.01)

Citation (search report)

- [A] EP 0198570 A2 19861022 - WESTINGHOUSE ELECTRIC CORP [US]
- [A] FR 2584097 A1 19870102 - CEZUS CO EUROP ZIRCONIUM [FR]
- See references of WO 9202654A1

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

**WO 9202654 A1 19920220**; EP 0495978 A1 19920729; EP 0495978 A4 19930127; JP H05500539 A 19930204

DOCDB simple family (application)

**US 9105143 W 19910725**; EP 91916653 A 19910725; JP 51531191 A 19910725