

Title (en)
PROCESS FOR PRODUCING A THIN-WALLED TUBING FROM A ZIRCONIUM-NIOBIUM ALLOY

Publication
EP 0198570 B1 19900829 (EN)

Application
EP 86300259 A 19860116

Priority
US 69354685 A 19850122

Abstract (en)
[origin: EP0198570A2] Thin-walled tubing of a zirconium-niobium alloy is fabricated by a process using a beta-quench prior to extrusion, the material being extruded at a temperature of 650 DEG C or lower and cold worked with annealing, between a plurality of cold working stages, effected at a temperature of below 650 DEG C, and the tubes then being subjected to a final anneal at a temperature below 600 DEG C. The resultant thin-walled tubing has a microstructure of homogeneously dispersed niobium particles of a size less than about 800 angstroms, with the tubing exhibiting excellent corrosion resistance.

IPC 1-7
C22F 1/18

IPC 8 full level
B21C 37/08 (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP KR)
C21D 9/08 (2013.01 - KR); **C22F 1/186** (2013.01 - EP)

Cited by
US7473329B2; WO2004040587A1; FR2576322A1; EP0425465A1; EP1223587A1; CN104550311A; EP0559096A1; US2012145287A1; EP0495978A4; CN113201666A; CN112775203A; CN113976657A; US8105448B2; US11603584B2; WO2021125439A1; WO2006004499A1; KR101630403B1; WO2017131260A1; US8070892B2; US8320515B2; EP1225243B2

Designated contracting state (EPC)
BE FR GB IT

DOCDB simple family (publication)
EP 0198570 A2 19861022; EP 0198570 A3 19871014; EP 0198570 B1 19900829; ES 551049 A0 19870901; ES 8708021 A1 19870901; JP S61210166 A 19860918; KR 860005894 A 19860816; KR 930009986 B1 19931013

DOCDB simple family (application)
EP 86300259 A 19860116; ES 551049 A 19860120; JP 1180286 A 19860122; KR 860000376 A 19860122