

Title (en)

Corrosion resistant zirconium alloys containing bisbuth.

Title (de)

Bismut enthaltende, korrosionsbeständige Zirkonlegierungen.

Title (fr)

Alliages de zirconium, contenant du bismuth et résistant à la corrosion.

Publication

EP 0287889 A1 19881026 (EN)

Application

EP 88105454 A 19880406

Priority

US 4150887 A 19870423

Abstract (en)

Zirconium-based corrosion resistant alloys for use primarily as a cladding material for fuel rods in a boiling water nuclear reactor which consist essentially of 0.5 to 2.5 weight percent bismuth, or alternatively, 0.5 to 2.5 weight percent of a mixture of tin and bismuth, 0.5-1.0 weight percent of a solute composed of a member selected from the group consisting of niobium, molybdenum, tellurium, and mixture thereof, alternatively, the solute will be composed of tellurium and will be in the range of 0.3-1.0 weight percent, and the balance being zirconium.

IPC 1-7

C22C 16/00; G21C 3/20

IPC 8 full level

C22C 16/00 (2006.01)

CPC (source: EP)

C22C 16/00 (2013.01)

Citation (search report)

[A] US 2872310 A 19590203 - WILHELM HARLEY A, et al

Cited by

US6511556B1; EP0867518A1; EP0964407A1; EP0964406A1; EP0867888A1; EP0549179A1; EP0867889A1; EP0399223A1; US5026516A; US6319339B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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