

Title (en)
Zirconium based alloy.

Title (de)
Zirkoniumlegierung.

Title (fr)
Alliage à base de zirconium.

Publication
EP 0065816 A2 19821201 (EN)

Application
EP 82302021 A 19820420

Priority
AR 28501881 A 19810420

Abstract (en)
A Zr based alloy with 7-15% by weight Nb and 0.5-3% by weight Al can be quenched in water from 1000 DEG C to largely retain beta phase. It is then deformable at room temperature to produce martensite. The alloy, which can be made in an electric arc furnace and forged at 900 DEG C to destroy the original solidification structure, is particularly suitable for structural components and fuel elements of nuclear reactors.

IPC 1-7
C22C 16/00

IPC 8 full level
C22C 1/02 (2006.01); **C22C 16/00** (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP)
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Cited by
CN1067729C; CN108411157A; CN107022696A

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DE FR GB

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EP 0065816 A2 19821201; EP 0065816 A3 19830112; AR 223104 A1 19810715; JP S5845342 A 19830316

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EP 82302021 A 19820420; AR 28501881 A 19810420; JP 6486382 A 19820420