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54 Zirconium based alloy.

(5) A Zr based alloy with 7-15% by weight Nb and 0.5-3% by weight Al can be quenched in water from 1000°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°C to destroy the original solidification structure, is particularly suitable for structural components and fuel elements of nuclear reactors.



## **EUROPEAN SEARCH REPORT**

Application number

EP 82 30 2021

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category		th indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	GB-A- 813 124 KINGDOM ATOMIC F *Claims 1-6,9,13	ENERGY AUTHORITY)	1-4	C 22 C 16/0
A	GB-A- 783 646 KINGDOM ATOMIC F *Claims 1,2*	THE UNITED ENERGY AUTHORITY)	1	
A	US-A-3 341 373 *Claim 1*	(E.W.EVANS)	4	
			-	
				TECHNICAL FIELDS SEARCHED (Int. Ci. 3)
				C 22 C
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			-	
	The present search report has b	een drawn up for all claims		
Place of search THE HAGUE  O7-1		Date of completion of the search 07-10-1982	RIES	Examiner R
X: par Y: par do A: tec	CATEGORY OF CITED DOCL rticularly relevant if taken alone rticularly relevant if combined w cument of the same category chnological background n-written disclosure	JMENTS T: theory or pri E: earlier pater after the fillr ith another D: document c L: document c &: member of t		lying the invention but published on, or plication reasons