

Title (en)
SHAPE MEMORY ALLOY

Publication
EP 0419789 B1 19930721 (DE)

Application
EP 90114034 A 19900721

Priority
• DE 3926693 A 19890812
• DE 4006076 A 19900227

Abstract (en)
[origin: EP0419789A1] The invention relates to a shape memory alloy for repeated applications, which contains no noble metals. <??>NiTiZr and NiTiZrCu shape memory alloys whose As temperature is above 100 DEG C are described. Such shape memory alloys have the following composition: 41.5 to 54 atom % of Ni, 24 to 42.5 atom % of Ti and 7.5 to 22 atom % of Zr and optionally up to 8.5 atom % of Cu.

IPC 1-7
C22F 1/00

IPC 8 full level
C22C 19/03 (2006.01); **C22C 30/00** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP US)
C22F 1/006 (2013.01 - EP US)

Citation (examination)
• Journal of Metals, vol.34 (1982), Seiten 14-20, Duerig et al. "A Shape-Memory Alloy for High-Temperature Applications"
• Kleinherenbrink und Beyer "Control of the transformation temperatures of TiNi Shape memory alloys by tertiary additions" (Conference: The martensitic transformation in science and technology, Bochum, BRD, 09-10.03.89, DGM Informationsgesellschaft m.b.H. Verlag, W-6370 Oberursel, Seiten 187-190)

Cited by
DE102005023072B3

Designated contracting state (EPC)
BE DE FR GB LU NL SE

DOCDB simple family (publication)
DE 4006076 C1 19901213; DE 59002023 D1 19930826; EP 0419789 A1 19910403; EP 0419789 B1 19930721; JP H0372046 A 19910327; US 5108523 A 19920428

DOCDB simple family (application)
DE 4006076 A 19900227; DE 59002023 T 19900721; EP 90114034 A 19900721; JP 21055590 A 19900810; US 55762990 A 19900724