

Title (en)
METHOD FOR THE PRODUCTION AND STABILISATION OF A REVERSIBLE TWO-WAY MEMORY EFFECT IN A CU-AL-NI OR CU-AL ALLOY

Publication
EP 0086014 B1 19861112 (DE)

Application
EP 83200130 A 19830126

Priority
CH 70782 A 19820205

Abstract (en)
[origin: US4416706A] Process to produce a reversible two-way shape memory effect in Cu-Al-Ni and Cu-Al memory alloys by heat treating said alloy while applying an external load (G) after the martensite formation accomplished by the conventional steps: solution treatment, quench (1,2) and deformation (3). Additional improvements by optional Martensite Stabilization (10) and Two-way Effect Zero-point Stabilization (12) in the form of further heat treatments.

IPC 1-7
C22F 1/00

IPC 8 full level
C22C 9/00 (2006.01); **C22C 9/01** (2006.01); **C22F 1/00** (2006.01); **C22F 1/08** (2006.01)

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

Citation (examination)

- DE 2711576 A1 19770922 - RAYCHEM CORP
- METALLURGICAL TRANSACTIONS A, Band 8A, Juni 1977, Seiten 955-962. N. Y. C. YANG et al.: "The cyclic stress-strain response of polycrystalline, pseudoelastic Cu-14,5 Wt Pct Al-3 Wt Pct Ni alloy"
- "Journal of Metals", December 1982, S. 14-20; "Acta metallurgica", Vol. 31, No. 7, 1983, S. 1013-1018

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AT BE CH DE FR GB LI SE

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