

Title (en)

MATERIAL AT LEAST PARTLY CONSISTING OF A COMPONENT SHOWING A ONE-WAY MEMORY EFFECT, AND PROCESS FOR THE MANUFACTURE THEREOF

Publication

**EP 0086013 B1 19861112 (DE)**

Application

**EP 83200129 A 19830126**

Priority

CH 70682 A 19820205

Abstract (en)

[origin: US4518444A] Material, in the form of bars, tubes, profiles, wires, sheets, or bands, which is, at least partially, composed of a constituent showing a one-way shape memory effect, and a further inactive constituent hindering the one-way effect of the first, and which collectively exhibits a significant two-way effect. The one-way shape memory constituent can be a Cu-Al-Ni, Cu-Al, TiV, Ti-Nb, Ni-Ti, or Ni-Ti-Cu alloy. Production of bi- or multi-constituent components by brazing, welding, roll bonding, extruding, powder metallurgical methods, hot isostatic pressing, or gluing, or by the application of metallic coatings (2) onto a core material (1) and subsequent diffusion treatment to produce an inactive surface layer (3).

IPC 1-7

**C22F 1/00**; B32B 15/01

IPC 8 full level

**C23C 10/28** (2006.01); **B21C 23/22** (2006.01); **B23K 20/00** (2006.01); **B32B 15/01** (2006.01); **C22F 1/00** (2006.01); **C22F 1/08** (2006.01); **C25D 3/12** (2006.01)

CPC (source: EP US)

**C22F 1/006** (2013.01 - EP US); **Y10T 428/12028** (2015.01 - EP US); **Y10T 428/12493** (2015.01 - EP US); **Y10T 428/125** (2015.01 - EP US); **Y10T 428/12507** (2015.01 - EP US); **Y10T 428/12514** (2015.01 - EP US); **Y10T 428/12562** (2015.01 - EP US); **Y10T 428/12569** (2015.01 - EP US)

Cited by

CN106984794A; DE3501650A1; EP0130719A3; EP0419789A1; US5108523A; EP0122429B1

Designated contracting state (EPC)

AT BE CH DE FR GB LI SE

DOCDB simple family (publication)

**EP 0086013 A2 19830817**; **EP 0086013 A3 19830921**; **EP 0086013 B1 19861112**; AT E23569 T1 19861115; CH 660882 A5 19870529; DE 3367625 D1 19870102; JP H0129144 B2 19890608; JP S58151242 A 19830908; US 4518444 A 19850521

DOCDB simple family (application)

**EP 83200129 A 19830126**; AT 83200129 T 19830126; CH 70682 A 19820205; DE 3367625 T 19830126; JP 1631483 A 19830204; US 40227482 A 19820727