

Title (en)
IRON-BASED SHAPE MEMORY ALLOY

Title (de)
EISENBASIERTE FORMGEDÄCHTNISLEGIERUNG

Title (fr)
ALLIAGE À MÉMOIRE DE FORME À BASE DE FER

Publication
EP 2976441 A1 20160127 (DE)

Application
EP 13741745 A 20130724

Priority

- EP 13160731 A 20130322
- EP 13175891 A 20130710
- EP 2013065657 W 20130724
- EP 13741745 A 20130724

Abstract (en)
[origin: WO2014146733A1] The invention relates to an iron-based shape memory alloy. The problem addressed by the invention is providing an iron-based shape memory alloy which provides a one-way shape memory effect, has an increased activation temperature in comparison to copper and nickel-based alloys at reduced production costs and has improved corrosion and forming properties in comparison to nickel-free and chromium-comprising concepts. The problem is solved by an alloy having the features of patent claim 1.

IPC 8 full level
C22C 38/00 (2006.01)

CPC (source: EP)
C22C 38/001 (2013.01); **C22C 38/002** (2013.01); **C22C 38/004** (2013.01); **C22C 38/06** (2013.01); **C22C 38/34** (2013.01); **C22C 38/42** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01); **C22C 38/48** (2013.01); **C22C 38/50** (2013.01); **C22C 38/52** (2013.01); **C22C 38/54** (2013.01); **C22C 38/58** (2013.01); **C21D 6/005** (2013.01); **C21D 2201/01** (2013.01)

Citation (search report)
See references of WO 2014146733A1

Cited by
CN111235491A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014146733 A1 20140925; EP 2976441 A1 20160127; EP 2976441 B1 20190227

DOCDB simple family (application)
EP 2013065657 W 20130724; EP 13741745 A 20130724