

**SUPPLEMENTARY  
EUROPEAN SEARCH REPORT**

Application Number  
EP 14 79 4166

<b>DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 6 406 566 B1 (ISHIDA KIYOHITO [JP] ET AL) 18 June 2002 (2002-06-18) * abstract * * examples 4, 9, 11, 13 * -----	1-13
X	SUTOU Y ET AL: "Grain size dependence of pseudoelasticity in polycrystalline Cu-Al-Mn-based shape memory sheets", ACTA MATERIALIA, ELSEVIER, OXFORD, GB, vol. 61, no. 10, 10 April 2013 (2013-04-10), pages 3842-3850, XP028591114, ISSN: 1359-6454, DOI: 10.1016/J.ACTAMAT.2013.03.022 * the whole document *	1-3,6-9, 12,13
A	-----	4,5,10, 11
X	Yuji Sutou: "Development of Cu-Al-Mn-based Shape Memory Alloys with Enhanced Ductility", Materia Japan, vol 42, nr.11, 20 November 2003 (2003-11-20), pages 813-821, XP055294456, Retrieved from the Internet: URL: <a href="https://www.jstage.jst.go.jp/article/materia1994/42/11/42_11_813/_pdf">https://www.jstage.jst.go.jp/article/materia1994/42/11/42_11_813/_pdf</a> [retrieved on 2016-08-09]	1-3,6-9, 12,13
A	* the whole document *	4,5,10, 11
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The supplementary search report has been based on the last set of claims valid and available at the start of the search.		
2	Place of search	Date of completion of the search
	Munich	4 April 2017
		Examiner
		von Zitzewitz, A
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document		

## CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

## LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.

As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:



**LACK OF UNITY OF INVENTION**  
**SHEET B**

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3, 6-9, 12, 13

This invention relates to a product having specific grain size ratios.

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2. claims: 4, 5, 10, 11

This invention relates to a method for producing an alloy having a specific composition and including a specific memory heat treatment.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 14 79 4166

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-04-2017

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6406566	B1	18-06-2002	JP 3300684 B2 JP 2001020026 A US 6406566 B1	08-07-2002 23-01-2001 18-06-2002
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