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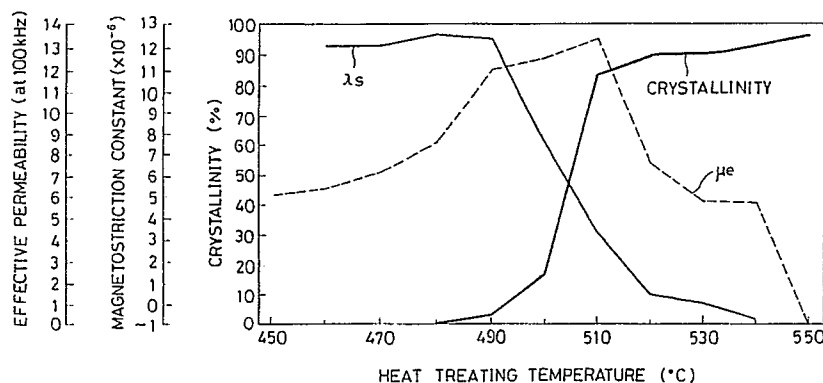
(54) **Soft magnetic alloy, method for making, magnetic core, magnetic shield and compressed powder core using the same.**

(57) A soft magnetic alloy having a composition of general formula:

(I) $(\text{Fe}_{1-a}\text{Ni}_a)_{100-x-y-z-p-q}\text{Cu}_x\text{Si}_y\text{B}_z\text{Cr}_p\text{M}^1_q$
wherein M^1 is V or Mn or a mixture of V and Mn, $0 \leq a \leq 0.5$, $0.1 \leq x \leq 5$, $6 \leq y \leq 20$, $6 \leq z \leq 20$, $15 \leq y$

+ $z \leq 30$, $0.5 \leq p \leq 10$, and $0.5 \leq q \leq 10$ and possessing a fine crystalline phase is suitable as a core, especially a wound core and a compressed powder core.

FIG. 2





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EUROPEAN SEARCH REPORT

Application Number

EP 90 11 0109

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	DE-A-3 835 986 (HITACHI METALS LTD.) * claims 1, 4, 6, 8 ** page 7, lines 22 - 25 *	1-11,17, 18,20-23, 25-27	H 01 F 1/153 H 01 F 3/00 H 05 K 9/00
- - -			
A	DE-A-3 001 889 (ALLIED CHEMICAL CORP.) * claims 1, 3, 4 ** page 4, paragraph 1 ** page 8, paragraph 1 *	1,3,5,7, 10,13-17, 20,22	
- - -			
A	EP-A-0 096 551 (UNITIKA LTD.) * claim 9 *	1,3	
- - - - -			
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 F
Place of search		Date of completion of search	Examiner
The Hague		19 March 91	DECANNIERE L.J.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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O: non-written disclosure		&: member of the same patent family, corresponding document	
P: intermediate document			
T: theory or principle underlying the invention			