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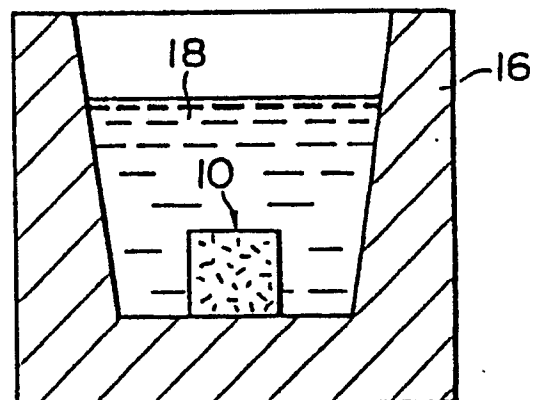
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54 **Method of producing metal base composite material under promotion of matrix metal infiltration by fine pieces of third material.**

57 In producing a metal base composite material by first producing a porous preform (10) from a reinforcing material such as short fibers, whisker, particles or mixtures thereof, and secondly infiltrating a molten matrix metal into the interstices of the porous preform, fine pieces of a third material having good affinity to the molten matrix metal are mixed in the porous preform in the process of producing the preform, and at least a part of the preform is contacted with a molten mass of the matrix metal so that the molten matrix metal infiltrates into the interstices of the porous preform with no substantial pressure being applied thereto.

**FIG. 2**



**EP 0 340 957 A3**



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.4)
X	FR-A-1 037 894 (LA METALLURGIE DES POUDRES) * Whole document *	1,2,9,24	C 22 C 1/09
X	WO-A-8 103 295 (MINNESOTA MINING AND MANUFACTURING CO.) * Claim 1; page 13, lines 20-27; page 16, lines 2-12; page 18, lines 19-23 *	1	
A	US-A-4 341 823 (SEXTON et al.) * Abstract *	1,2	
A	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 18 (M-448)[2075], 24th January 1988; & JP-A-177 102 (MAZDA K.K.) 11-09-1985 * Abstract *	1	
A	JOURNAL OF METALS, vol. 40, no. 2, February 1988, pages 12-19, New York, US; A. MORTENSEN et al.: "Solidification Processing of Metal-Matrix Composites"		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 22 C B 22 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 01-03-1990	Examiner ASHLEY G.W.
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	