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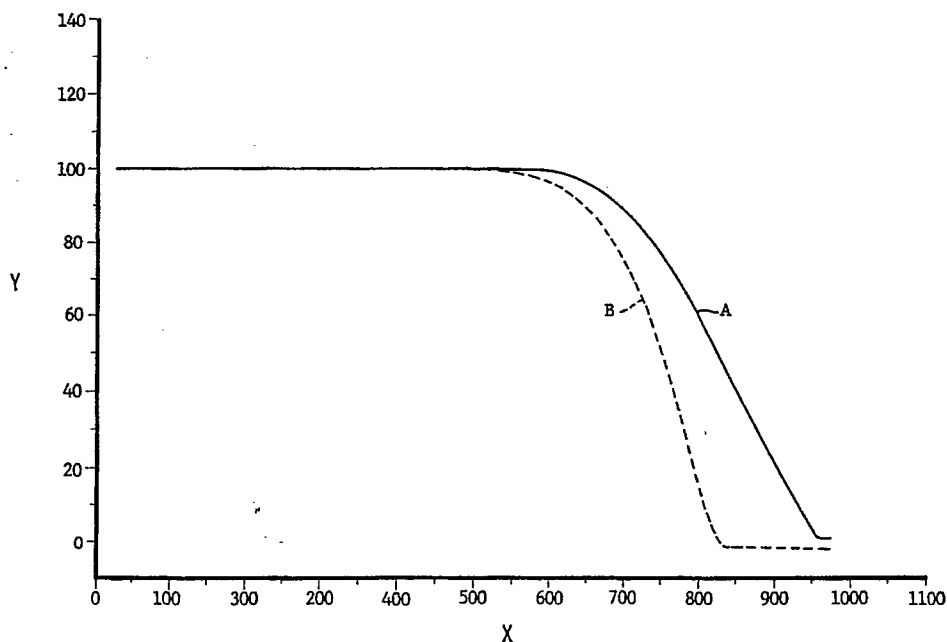
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(54) **Stable amorphous hydrated metal oxide sizing for fibres in composites.**

(57) A method of using a polymeric composite wherein the composite exhibits greater oxidative stability. The fiber reinforcement has a layer of amorphous hydrated metal alkoxide formed by deposition onto the fiber and subsequent hydrolysis of metal

alkoxides. The improvement comprises exposing the composite to temperatures of about 100° C to about 975° C.



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## EUROPEAN SEARCH REPORT

Application Number

**EP 89 63 0216**

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	LU-A-6 110 2 (I.C.I.) * Whole * - - -	1-5	D 01 F 11/12 D 06 M 11/45 D 06 M 11/46 D 06 M 11/79 C 22 C 1/09
X	US-A-4 376 803 (KATZMAN) * Whole * - - -	1-2,4-5	
X	US-A-4 376 804 (KATZMAN) * Whole * - - -	1-2,4-5	
X	EP-A-0 074 573 (TANAKA & TOYOTA) * Whole * - - -	1-2,4-5	
X	US-A-3 713 865 (LEEDS) * Whole * - - - - -	1-2,4-5	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)  D 01 F C 22 C
Place of search  The Hague		Date of completion of search  15 March 91	Examiner  HELLEMANS W.J.R.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>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</div> <div>E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &amp;: member of the same patent family, corresponding document</div>			