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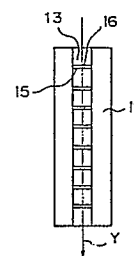
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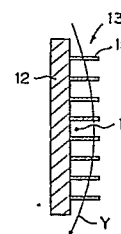
54 **A non-touch type heater for heating a synthetic filament yarn.**

57 This invention relates to a non-touch type heater for heating a synthetic filament yarn, especially a polyester filament yarn, in a false-twist texturing process while keeping the running yarn apart from a heater surface. According to the invention the heater comprises a heater body (12) having a lengthwise groove (13) in the surface thereof with a plurality of yarn guides (15) being arranged in said groove so that the yarn (Y) runs along an arcuate path defined by the yarn guides (15). Further, according to the invention, the distance between the heater surface and the yarn path is minimum at the inlet and exit ends of the path and maximum in the middle of said path.

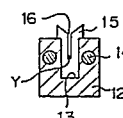
*Fig. 3a*



*Fig. 3c*



*Fig. 3b*





EP 89 10 7696

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)
D,A	FR-A-1 204 634 (B.N.S.) * Summary points A1,6,B1,3,4; page 3, right-hand column, paragraph 5 * ---	1	D 02 J 13/00
A	DE-A-1 937 492 (TEIJIN) * Claim 1; figure 1; page 5, lines 2-4 * -----	3	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			D 02 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-09-1989	Examiner CATTOIRE V.A.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			