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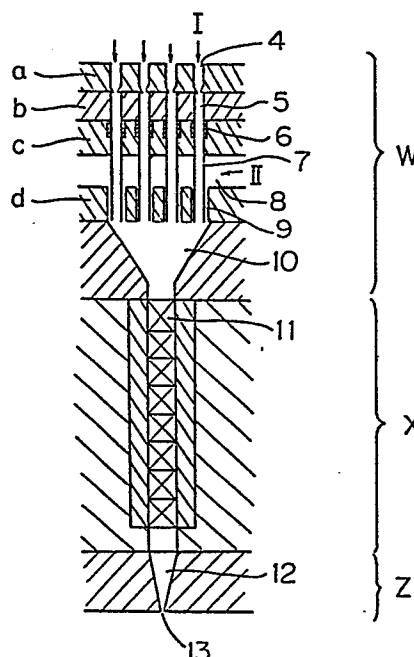
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54 **Spinneret assembly for multi-ingredient composite fibers.**

57 A spinneret assembly for spinning multi-ingredient composite fibers, each of which has a large number of core ingredients finely dispersed in an intervening ingredient, includes at least three kinds of elements W, X and Z. A first element W has at least a composite stream forming region (10) in which two separately guided polymer streams I and II are joined, and channels (4, 5, 7) and (9) respectively for the two polymer streams I and II. A second element X has a stationary type dividing device (11). A third element Z has a converging portion (12) and a nozzle orifice (13) discharging the resultant composite stream to form a multi-ingredient composite fiber. From the fibers thus produced, extremely fine filaments are obtained by dissolving the ingredients other than core ingredients.





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EUROPEAN SEARCH REPORT

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EP 83 30 5519

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. 3)
Y,X	US-A-3 672 802 (M.MATSUI et al.) * Claims; figure 8; column 6, lines 63-65 *	1-12	D 01 D 5/36
Y	GB-A-1 302 584 (TORAY) * Claims; figures *	4	
P,Y	US-A-4 370 114 (TORAY) * Claims; figures *	4	
Y	PATENTS ABSTRACTS OF JAPAN, vol. 6, no. 110(C-109)(988), 22nd June 1982; & JP - A - 57 39209 (TORAY K.K.) 04-03-1982	4	
Y	PATENTS ABSTRACTS OF JAPAN, vol. 5, no. 71(C-54)(743), 13th May 1981; & JP - A - 56 20608 (TORAY K.K.) 26-02-1981	4	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
A	GB-A-1 171 843 (TOYO RAYON)	4	D 01 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03-06-1985	Examiner VAN GOETHEM G.A.J.M.
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	