

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 503 783 A2 (ICI PLC [GB]) 16 September 1992 (1992-09-16) * claim 1; figures 1-3; example 1 * -----	1-15,17, 21-25	INV. D01D5/24 B01D69/08 B01D69/12
X	DE 30 22 313 A1 (NIPPON ZEON CO) 18 December 1980 (1980-12-18) * figures 12,13 * -----	1-15,17, 21-25	
X	EP 0 430 439 A2 (ICI PLC [GB]) 5 June 1991 (1991-06-05) * page 3, lines 2-10; figures 1-3; example 1 * -----	1-11,14, 15,17, 21-25	
A	WO 03/097221 A1 (PARA LTD [KR]; YOON HO SUNG [KR]; HAN SU YOUNG [KR]; LEE JUNG WOOK [KR]) 27 November 2003 (2003-11-27) -----	1-15,17, 21-25	
A	US 2006/289350 A1 (JI JIANG [US]) 28 December 2006 (2006-12-28) * paragraph [0049]; figures 1,2 * -----	1-15,17, 21-25	
			TECHNICAL FIELDS SEARCHED (IPC)
			B01D D01F D01D
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search		Date of completion of the search	Examiner
Munich		26 July 2016	Hennebrüder, K
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			

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:  
3-10, 13-15, 17, 21, 22, 25(completely); 1, 2, 11, 12, 23, 24(partially)

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 3-10, 13-15, 17, 21, 22, 25(completely); 1, 2, 11, 12, 23, 24(partially)

Hollow fiber spinning nozzle with means for delay/branch and merging  
wherein mesh/particles are provided within the nozzle  
or wherein means leading to vertical meandering of the flow within the nozzle are provided  
or wherein means leading to spiral flow within the nozzle are provided

- 1.1. claims: 21(completely); 1, 2, 11, 12, 23, 24(partially)

Hollow fiber spinning nozzle with means for delay/branch and merging  
wherein means leading to vertically meandering of flow within the nozzle are provided

- 1.2. claims: 22(completely); 1, 2, 11, 12, 23, 24(partially)

Hollow fiber spinning nozzle with means for delay/branch and merging  
wherein means leading to spiral flow within the nozzle are provided

- 1.3. claims: 3-10, 13-15, 17, 25(completely); 1, 2, 11, 12, 23, 24(partially)

Hollow fiber spinning nozzle with means for delay/branch and merging  
wherein mesh/particles are provided within the nozzle  
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2. claims: 16, 18-20(completely); 1, 2, 11, 12, 23, 24(partially)

Hollow fiber spinning nozzle with means for delay/branch and merging  
wherein means for introduction of dope into the nozzle into different liquid storage sections are provided  
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Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 84 3463

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-07-2016

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			US 7165682 B1	23-01-2007
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