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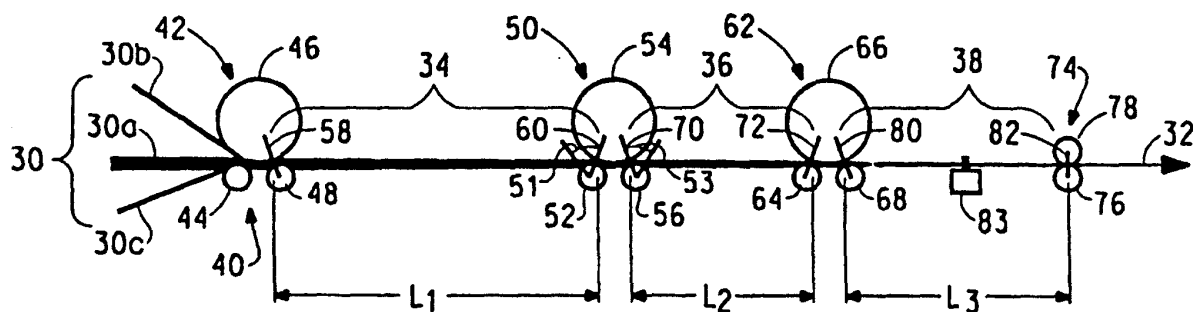
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(54) **Stretch break method and product**

(57) A method for stretch breaking fibers to produce a staple yarn. The process includes a break zone and a consolidation zone downstream to form a staple yarn.



**FIG. 1**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 05 07 7200

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	WO 89/01999 A (HELTRA INCORPORATED) 9 March 1989 (1989-03-09) * page 8; claim 1 *	1, 2, 4, 5, 8	
A	GB 689 054 A (HENRY VON KOHORN) 18 March 1953 (1953-03-18) * claims 1, 2, 5 *	1, 9	
A	US 4 477 526 A (LAUTERBACH ET AL) 16 October 1984 (1984-10-16) * example 1 *	1, 2	
A	US 4 698 956 A (CLARKE ET AL) 13 October 1987 (1987-10-13) * example 1 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			D01G D02G
<p>4 <del>The present search report has been drawn up for all claims</del></p>			
Place of search The Hague		Date of completion of the search 16 January 2007	Examiner D'Souza, Jennifer
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)



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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.

### 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 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 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 European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-10



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**LACK OF UNITY OF INVENTION**  
**SHEET B**

Application Number  
EP 05 07 7200

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: 1-10**

A process for converting continuous filament fibre into discontinuous filament yarn comprising feeding at least two different fibres into the process, the fibre differences being visually distinct differences detectable by an unaided eye.

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**2. claims: 11-20**

A yarn comprising a consolidated manmade fibre of discontinuous filaments of different lengths, wherein at least 1% of the discontinuous filaments in the yarn by denier comprises a fibre having a filaments with a latent elasticity of 30% or more.

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

EP 05 07 7200

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  
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16-01-2007

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