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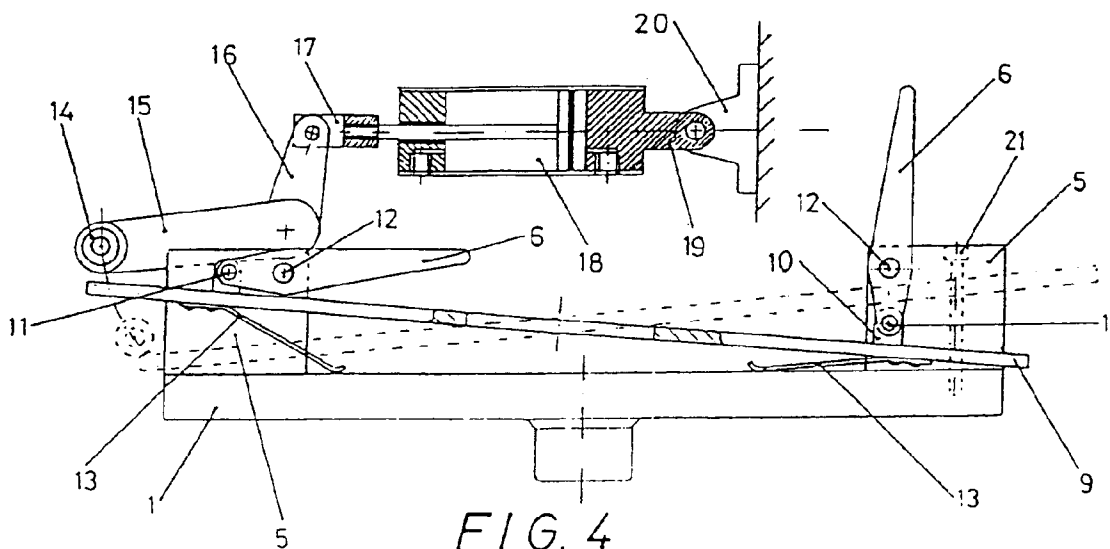
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(54) **Improvements in winding and tying machines.**

(57) Improvements in winding and tying machines, these being intended for the automatic production of skeins of cordiform materials, these improvements consisting basically of the incorporation of a second pair of concealable fingers (6), connected rotationally to the blocks (5) onto which they are assembled on the winding chuck (1) and to a strip (9) activated by a mechanism of arms on which a cylinder (18) acts to position the fingers (6) in a vertical position or concealed, in such a way that, for the production of rolls or skeins of greater diameter, the mechanism can incorporate two pairs of concealable fingers (25), between which there is a tying mechanism (27), or these fingers (34) can be fixed in a vertical position.





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# EUROPEAN SEARCH REPORT

Application Number  
EP 93 87 0006

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)
A	EP-A-0 178 458 (H.DEISSENBERGER) * page 6, line 5 - page 8, line 6 * -----	1	B65H54/56
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			B65H B65B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 October 1993	Examiner GOODALL, C
<p><b>CATEGORY OF CITED DOCUMENTS</b></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>			

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