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(11) Publication number:

0 435 366 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **90203275.4**

(51) Int. Cl.⁵: **D01H 13/04, D01H 13/06,
D01H 7/92, B65H 54/28**

(22) Date of filing: **12.12.90**

(30) Priority: **21.12.89 IT 2278989**

(43) Date of publication of application:
03.07.91 Bulletin 91/27

(84) Designated Contracting States:
BE CH DE ES FR GB GR LI

(88) Date of deferred publication of the search report:
18.09.91 Bulletin 91/38

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(54) **Improved twister device for a winding carriage enabling compact bobbins to be formed.**

(57) This invention relates to an improved twister device (8) for a winding carriage collecting onto a bobbin (12) the sliver (30) emerging from the gill box or derived machine.

More specifically, the present invention proposes a device which enables compact bobbins (12) of cylindrical form to be obtained, by comprising drive means (1) which rotate the rotary trumpet (7) of the known mobile twister (8) unit independently of the to-and-fro linear movement of said mobile unit (8) of the winding carriage, to transmit single-direction constant uniform rotation to the sliver sliding within the rotary trumpet before it is deposited on the surface of the bobbin under formation.

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EUROPEAN SEARCH REPORT

Application Number

EP 90 20 3275

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	US-A-2 757 876 (H.M. SMITH ET AL) * column 1, line 40 - line 43 ** column 1, line 53 - line 60 @ column 2, line 56 - column 3, line 19 @ column 4, line 11 -line 22; claim 1 ** figures 1-5 * - - -	1	D 01 H 13/04 D 01 H 13/06 D 01 H 7/92 B 65 H 54/28
A	US-A-2 674 013 (R. PLACE) * column 1, line 36 - column 2, line 11 ** column 3, line 26 - line 38; figures 1-5 * - - -	1	
A	US-A-3 348 783 (J.K.P. MACKIE) * the whole document * - - -	1	
A	US-A-3 491 960 (S. FÜRST) * the whole document * - - -	1	
A	GB-A-1 205 771 (JOSEF BAER MASCHINENFABRIK) * the whole document * - - -	1	
A	EP-A-0 295 731 (SAVIO S.P.A.) - - - - -		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5) D 01 H B 65 H
Place of search The Hague		Date of completion of search 02 July 91	Examiner FAIRBANKS S.A.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>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</div> <div>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</div>			