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(54) **Automatic device for the removal of yarn windings from axialsymmetrical elements of textile machinery.**

(57) Device for extracting the yarn windings (25) from axialsymmetrical elements of a textile machine, which comprises, in coordinated cooperation:

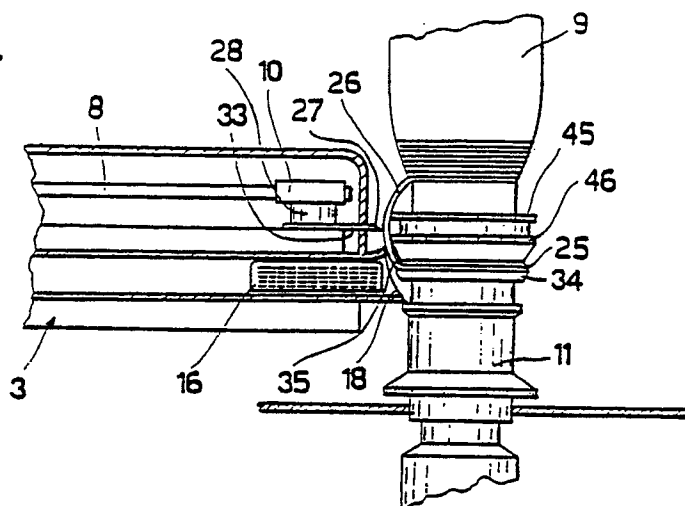
- a cutting element (27), which performs the function of interrupting the continuity of the yarn (26) between the yarn windings of the reserve, and the

bobbin (9) under way of formation;

- an intake port (17) for suitably sucking and conveying into a slot the cut yarn end;

- a rotary element (16) for seizing, extracting and opening the yarns, for the purpose of rapidly removing said reserve windings.

Fig.3



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| 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.4) |
| Y | CH-A-432319 (DEUTSCHER SPINNEREIMASCHINENBAU INGOLSTADT ...) * the whole document * | 1, 2 | D01H11/00 D01H1/38 |
| A | --- | 8, 9, 12, 18, 27, 29 | |
| Y,P | EP-A-0219129 (MURAO BOKI KK) * page 9, paragraph 1 - page 12, paragraph 2; figures 1, 5, 6 * | 1, 2 | |
| A | --- | 8, 14, 17, 27, 29 | |
| A | DE-A-1760775 (ZINSER TEXTILMASCHINEN GMBH) * the whole document * | 1, 2, 7, 8, 11, 27, 29 | |
| A | FR-A-2432566 (ZINSER TEXTILMASCHINEN GMBH) ----- | | |
| | | | TECHNICAL FIELDS SEARCHED (Int. Cl.4) |
| | | | D01H |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 28 JUNE 1990 | Examiner MUNZER E. |
| 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 I : document cited for other reasons ----- & : member of the same patent family, corresponding document | |