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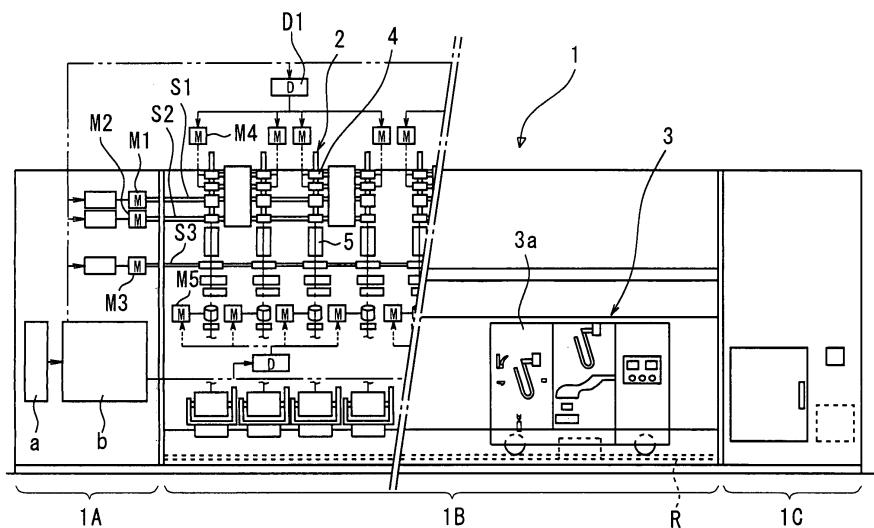
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(54) Spinning machine with a slack eliminating device

(57) According to the present invention, there is provided a spinning machine having a spinning device 5 that generates and spins a yarn Y from a bundle of supplied fibers F and a bunch winding machine 19, the spinning machine being provided with a slack eliminating device 10 that retains and absorbs the slack of the yarn between a suction pipe 17 and the spinning device 5 when the yarn is guided to the bobbin holder 14b1 for a bunch winding operation. Furthermore, the running of the yarn fed by the spinning device 5 is substantially

stopped near the bobbin holder. The spinning machine is provided with the slack eliminating roller 21 that retains and absorbs the slack of the yarn between the yarn catching means and the spinning device when the yarn is caught to the bobbin holder for a bunch winding operation, and the running of the yarn fed by the spinning device is substantially stopped near the bobbin holder. Therefore, compared to conventional bunch winding executed on a bobbin rotated in contact with a friction roller at a high speed, the success rate of bunch winding can be improved (Fig. 7).

FIG.1





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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
Y	EP 0 108 195 A (SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT) 16 May 1984 (1984-05-16) * page 12, line 24 - page 13, line 6 * * page 27, line 21 - page 28, line 30; figures 1-3 * -----	1-8	B65H67/04 B65H51/22 D01H9/10
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A	US 5 224 330 A (STAHLCKER ET AL) 6 July 1993 (1993-07-06) * column 4, line 15 - line 23; figure 1 * -----	1	
A	US 4 419 861 A (FUJIWARA ET AL) 13 December 1983 (1983-12-13) * column 10, line 51 - column 12, line 20; figure 1 * -----	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7) B65H D01H
The present search report has been drawn up for all claims			
3	Place of search The Hague	Date of completion of the search 4 March 2005	Examiner Henningsen, O
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 04 00 4984

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.

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