

(19)



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(11)

EP 0 761 587 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.01.1998 Bulletin 1998/02

(51) Int. Cl.⁶: **B65H 67/06**, D01H 9/18

(43) Date of publication A2:
12.03.1997 Bulletin 1997/11

(21) Application number: **96114024.1**

(22) Date of filing: **02.09.1996**

(84) Designated Contracting States:
DE FR IT

(30) Priority: **08.09.1995 JP 256771/95**
21.09.1995 JP 242659/95

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(54) **Bobbin removal device**

(57) The present invention is arranged with a removal belt (13), sloping upwards in the tray transport direction, pushes this removal belt in contact with the bobbin (5), on the tray (1), and removes the bobbin from the tray.

As a result, the bobbin can be removed by a simple structure involving only one removal belt. Furthermore, as the direction of the bobbin after removal by a single removal belt is undetermined, a guide member (19) and bobbin direction control means (118) by air or the like is arranged.

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EUROPEAN SEARCH REPORT

Application Number
EP 96 11 4024

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.6)
X	US 5 277 295 A (H. GRECKSCH ET AL.) * the whole document *	1-5	B65H67/06 D01H9/18
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B65H D01H
Place of search		Date of completion of the search	Examiner
THE HAGUE		23 October 1997	D'Hulster, 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 L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)