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(11) **EP 0 651 084 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
12.03.1997 Bulletin 1997/11

(51) Int. Cl.<sup>6</sup>: **D06B 23/04**, D06B 5/16

(43) Date of publication A2:  
03.05.1995 Bulletin 1995/18

(21) Application number: **94202678.2**

(22) Date of filing: **16.09.1994**

(84) Designated Contracting States:  
**AT BE CH DE ES FR IT LI PT**

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(30) Priority: **24.09.1993 IT MI932045**

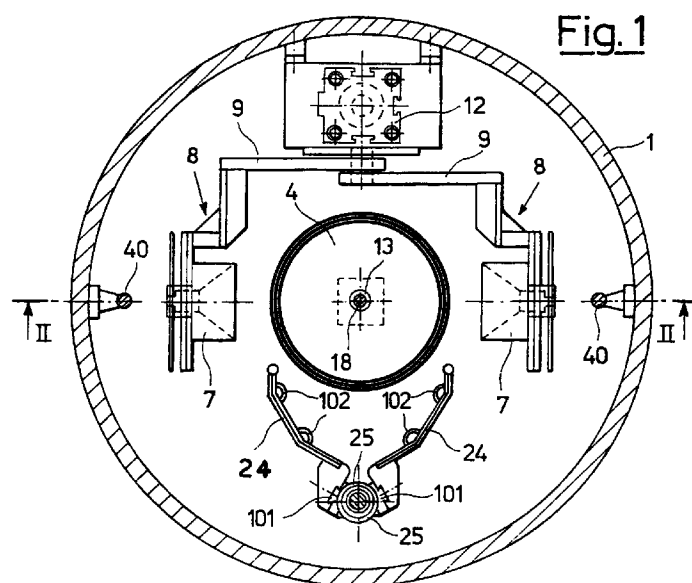
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(54) **Automatic device for loading and unloading stacks of reels of yarn**

(57) An automatic device for loading and unloading stacks of reels of yarn comprises a centering mechanism (8, 10-13, 17, 18, 20, 21, 100) of a vertical reel-holding rod (3) on which the reels (4) are, or are about to be, stacked; the centering mechanism (8, 10-13, 17, 18, 20, 21, 100) comprises a vertical stem (13) on which a stack of reels to be moved is transferred so as to move it from a rod (3) to be unloaded to a rod (3) to be loaded, and a mechanism (24-29, 32, 35, 40) for removing and positioning the stack of reels that comprises an element (24) for removing the stack of reels (4) that is made to

slide vertically to accomplish the removal or the positioning of the stack itself; the centering mechanism (8, 10-13, 17, 18, 20, 21, 100) comprises sensor means (18, 20, 21, 100) suitable for detecting the vertical alignment of the stem (13) with the reel-holding rod (3) and to operate the activation of the removal and positioning mechanism (24-29, 32, 35, 40); the removal element of the removal and positioning mechanism (24-29, 32, 35, 40) is constituted by a pair of jaws (24) suitable for grasping a reel (4) at the base of the stack.



**Fig. 1**

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Application Number  
EP 94 20 2678