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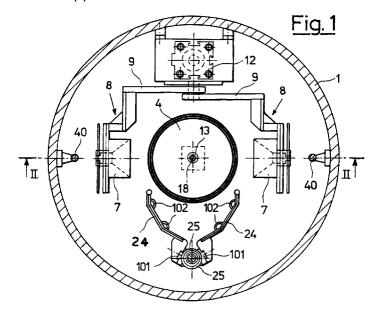
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(54)Automatic device for loading and unloading stacks of reels of yarn

(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 reelholding 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.





EUROPEAN SEARCH REPORT

Application Number EP 94 20 2678

Category	Citation of document with indicati of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
A	of relevant passages EP-A-0 130 092 (BARRIQU * page 29, line 30 - pa * page 31, line 25 - li * page 23, line 1 - pag	JAND S.A.) age 30, line 30 *	,2	TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
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The present search report has been drawn up for all claims Place of search Date of completion of the search		<u> </u>		Examiner	
THE HAGUE		7 January 1997	God	oodall, C	
X: par Y: par doo A: tec	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another ument of the same category hological background howritten disclosure	T: theory or principle to E: earlier patent document cited in to L: document cited for the same to the	nent, but pub he applicatio other reasons	n	