

Title (en)

Automatic device for loading and unloading stacks of reels of yarn.

Title (de)

Automatische Einrichtung zum Auf- und Abladen von Garnspulenstapeln.

Title (fr)

Installation automatique pour le chargement et le déchargement de piles de bobines de fil.

Publication

EP 0651084 A3 19970312 (EN)

Application

EP 94202678 A 19940916

Priority

IT MI932045 A 19930924

Abstract (en)

[origin: EP0651084A2] 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. <IMAGE>

IPC 1-7

D06B 23/04; **D06B 5/16**

IPC 8 full level

D06B 5/16 (2006.01); **D06B 23/04** (2006.01)

CPC (source: EP)

D06B 5/16 (2013.01); **D06B 23/04** (2013.01)

Citation (search report)

[A] EP 0130092 A1 19850102 - BARRIQUAND SOC [FR]

Cited by

EP2759498A4; CN111086693A; CN114921924A; CN110747594A; IT201900009078A1

Designated contracting state (EPC)

AT BE CH DE ES FR IT LI PT

DOCDB simple family (publication)

EP 0651084 A2 19950503; **EP 0651084 A3 19970312**; **EP 0651084 B1 20000531**; AT E193567 T1 20000615; DE 69424742 D1 20000706; DE 69424742 T2 20001116; ES 2147768 T3 20001001; IT 1272675 B 19970626; IT MI932045 A0 19930924; IT MI932045 A1 19950324; PT 651084 E 20000929

DOCDB simple family (application)

EP 94202678 A 19940916; AT 94202678 T 19940916; DE 69424742 T 19940916; ES 94202678 T 19940916; IT MI932045 A 19930924; PT 94202678 T 19940916