

Title (en)

Method and device for coiling flexible elongated elements into fractional coils arranged in a line and wrapping these with a protective film of flexible material, and packing of wrapped coils

Title (de)

Verfahren und Vorrichtung zum Aufwickeln von flexiblen länglichen Elementen auf in Reihen aufgestellten Teilrollen und zum Umhüllen derselben mit flexibler Schutzfolie, und Verpacken von umhüllten Teilrollen

Title (fr)

Procédé et dispositif permettant d'embobiner des éléments allongés et flexibles en bobines fractionnelles disposées en ligne et d'emballer ces dernières à l'aide d'un film protecteur fait d'un matériau flexible, et emballage de bobines emballées

Publication

EP 1037802 B1 20030813 (EN)

Application

EP 98945675 A 19980902

Priority

- SE 9801560 W 19980902
- SE 9703463 A 19970925

Abstract (en)

[origin: WO9915409A1] The present invention concerns a procedure and an arrangement for winding flexible, elongated elements (5) onto reels and wrapping these with a protective film of elastic material, whereby the element is wound around a drum (2) turning around an axis (3) where the number of rotations is guided by details of the pre-determined length on the reel, the flexible element is arranged to run through a feeding mechanism (4) that via its displacement relative to the drum, guides the flexible element so that it is taken up onto the drum with evenly spaced turns, the element during winding is guided to keep its position for forming the reel within an axially limited area by means of a set of guiding devices (22, 22') projecting radially and in the same radial plane out from the drum and separated at a distance from one another along the periphery of the drum, so that in this way, the element wound on a reel is provided with a wrapping of elastic film (7) by being rotated. To continuously carry out the process for winding the flexible element onto a pre-determined number of partial reels or segments arranged in a row along the drum and wrapping these with elastic film, a first and second set or ring (34, 35) of guiding devices (22, 22') are selectively arranged to move in synchrony with the rotation of the drum (2) in a continuous cyclical track that is primarily oriented to run parallel with the axis of rotation (3) of the drum.

IPC 1-7

B65B 11/58; **B65D 85/04**; **B65H 54/20**

IPC 8 full level

B65B 25/24 (2006.01); **B65D 85/04** (2006.01); **B65H 54/20** (2006.01); **B65H 54/56** (2006.01)

CPC (source: EP)

B65B 25/24 (2013.01); **B65D 85/04** (2013.01); **B65H 54/20** (2013.01); **B65H 54/56** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IT LI NL PT

DOCDB simple family (publication)

WO 9915409 A1 19990401; AT E247024 T1 20030815; AU 9286398 A 19990412; DE 69817217 D1 20030918; EP 1037802 A1 20000927; EP 1037802 B1 20030813; SE 508247 C2 19980921; SE 9703463 D0 19970925; SE 9703463 L 19980921

DOCDB simple family (application)

SE 9801560 W 19980902; AT 98945675 T 19980902; AU 9286398 A 19980902; DE 69817217 T 19980902; EP 98945675 A 19980902; SE 9703463 A 19970925