Title (en)

WINDING MANDREL FOR A WOUND PACKAGE OF FLAT PRODUCTS, ESPECIALLY PRINTED PRODUCTS

Publication

EP 0139999 B1 19890419 (DE)

Application

EP 84110164 A 19840825

Priority

CH 506883 A 19830919

Abstract (en)

[origin: US4593865A] The winding mandrel comprises a cylindrical winding drum or body which has two circumferential web members on its inner side. Each web member lies substantially in a plane which lies outside the center of gravity of the winding mandrel together with the coil or wound package. The winding mandrel bears upon two driven and tandemly arranged support wheels with one of its web members. A support roll is arranged beneath these support wheels. A lateral support surface of the web member bears against this support roll. The support wheels are constructed as friction drive wheels and, in addition to supporting the winding mandrel, serve to drive the winding mandrel. Due to the overturning or tipping moment induced by the eccentricity of the bearing points of the winding mandrel upon the support wheels in relation to the center of gravity, the winding mandrel is pressed against the support roll. This has the effect that the winding mandrel maintains the desired position during its rotation. This position is partly determined by the support roll constituting a contact roll arranged to be immovable in the direction of the longitudinal axis of the winding mandrel.

IPC 1-7

B65H 18/04; B65H 29/00

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CPC (source: EP US)

B65H 18/28 (2013.01 - EP US); **B65H 29/006** (2013.01 - EP US); B65H 2301/41922 (2013.01 - EP US); B65H 2701/1932 (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

US 4593865 A 19860610; AT E42255 T1 19890515; CA 1239135 A 19880712; DE 3477759 D1 19890524; EP 0139999 A1 19850508; EP 0139999 B1 19890419; FI 75545 B 19880331; FI 75545 C 19880711; FI 843649 A0 19840918; FI 843649 L 19850320; JP H0358992 B2 19910909; JP H06102498 B2 19941214; JP H07144797 A 19950606; JP H0825674 B2 19960313; JP S60178147 A 19850912; JP S60501205 A 19850801; ZA 847337 B 19850529

DOCDB simple family (application)

US 64937184 A 19840911; AT 84110164 T 19840825; CA 463096 A 19840913; DE 3477759 T 19840825; EP 84110164 A 19840825; FI 843649 A 19840918; JP 18904494 A 19940720; JP 19648684 A 19840919; JP 50341384 A 19840919; ZA 847337 A 19840918