

Title (en)

Method and device for continuously winding a material web

Title (de)

Verfahren und Vorrichtung zum kontinuierlichen Aufwickeln einer Materialbahn

Title (fr)

Méthode et dispositif pour continuellement enrouler une bande de matériau

Publication

EP 0941955 B1 20030507 (DE)

Application

EP 99102588 A 19990211

Priority

DE 19807897 A 19980225

Abstract (en)

[origin: US6250580B1] Process and winding machine for the continuous winding of a web of material onto a reel spool to form a reel. The process includes forming a winding nip between a peripheral zone of a reel drum the reel, guiding the material web over the peripheral zone of the reel drum, positioning the reel in a secondary zone, and displacing and pressing the reel drum against the reel in the secondary zone. In this manner, one of control and regulation of a linear force in the winding nip occurs through the displacement of the reel drum. Upon obtaining a completed reel having a desired reel diameter, the process includes moving the reel drum into a temporarily fixed position, introducing a new, empty reel spool into a primary zone, forming another winding nip between the new spool and the reel drum through a relative movement of the new reel spool with respect to the reel drum in the temporarily fixed position, cutting the material web, winding the material web onto the new reel spool to form a new reel, and removing the completed reel. The process also includes transferring the new reel spool from the primary zone to the secondary zone, releasing the reel drum from the temporarily fixed position, and displacing the reel drum for one of the control and regulation of the linear force in the winding nip between the reel drum and the new reel spool in the secondary zone. The winding machine includes a reel drum arranged to form a winding nip with the reel, a primary mount adapted to hold a new reel spool, wherein the primary mount is further adapted to displace the new reel spool along a first guide path substantially radially to the reel drum, and a secondary mount coupled to the reel spool. The machine also includes a pressure device coupled to the reel drum, which is adapted to move the reel drum at least substantially horizontally when the reel spool is in the secondary mount, and which is further adapted to at least temporarily fix a position of the reel drum when the new reel spool is in the primary mount.

IPC 1-7

B65H 19/30; **B65H 18/26**; **B65H 19/22**

IPC 8 full level

B65H 18/26 (2006.01); **B65H 19/22** (2006.01); **B65H 19/30** (2006.01)

CPC (source: EP US)

B65H 18/26 (2013.01 - EP US); **B65H 19/2261** (2013.01 - EP US); **B65H 2403/52** (2013.01 - EP US); **B65H 2408/236** (2013.01 - EP US)

Cited by

EP1291310A3; EP1535870A3; WO03011727A1

Designated contracting state (EPC)

AT DE FI SE

DOCDB simple family (publication)

US 6250580 B1 20010626; AT E239658 T1 20030515; CA 2262721 A1 19990825; DE 19807897 A1 19990826; DE 59905391 D1 20030612; EP 0941955 A2 19990915; EP 0941955 A3 19990922; EP 0941955 B1 20030507

DOCDB simple family (application)

US 25617499 A 19990224; AT 99102588 T 19990211; CA 2262721 A 19990224; DE 19807897 A 19980225; DE 59905391 T 19990211; EP 99102588 A 19990211