

Title (en)

A WINDING APPARATUS AND A METHOD FOR WINDING CONTINUOUSLY ARRIVING YARN OR SLIT FILM TAPES

Title (de)

WICKELVORRICHTUNG UND VERFAHREN ZUM AUFWICKELN KONTINUIERLICH ANKOMMENDER GARN- ODER SLIT-FILM-BÄNDER

Title (fr)

APPAREIL D'ENROULEMENT ET PROCÉDÉ POUR ENROULER UN FIL OU DES BANDES DE FILM COUPÉ ARRIVANT EN CONTINU

Publication

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Application

**EP 21702311 A 20210118**

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Abstract (en)

[origin: WO2021148922A1] The invention relates to an apparatus and a method for controlling yarn winding tension in a winder system by reducing variations or fluctuations in thread tension during winding operations. The plurality of dancer arms (3) of the winding system are each provided with a tensioning device, which in turn has at least one polymeric fluidic tension actuator (8) which serves to determine an instantaneous signal which is approximately proportional to the required tension of the continuously arriving yarn (1). The tension actuator (8) generates required resistance on the dancer arm (3) in proportion to the required winding tension in the winding yarn (1). In the method for controlling the yarn winding tension, the change in said instantaneous angular position (3F) of said dancer arm (3) is monitored and used to regulate winding tension by changing rotational speed of spindle (2) through the individual winder head controller (13) in required proportion.

IPC 8 full level

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Citation (search report)

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