

Title (en)

Method and arrangement for operating a creel for a winding machine and creel

Title (de)

Verfahren und Anordnung zum Betrieb eines Spulengatters für eine Wickelanlage sowie ein Spulengatter

Title (fr)

Procédé et dispositif pour le fonctionnement d'un cantre pour une machine d'enroulage et cantre

Publication

**EP 1707656 B1 20080430 (DE)**

Application

**EP 05102526 A 20050330**

Priority

EP 05102526 A 20050330

Abstract (en)

[origin: EP1707656A1] The warping unit has spools with packing machine rotating with an angular speed of threads. The yarn tenioner is controlled during a high driving procedure and/or a stop procedure of the winding machine to keep a thread tension of thread constantly with regard to the desired value (31). The thread tension is produced by the yarn tenioner with a variable braking force. The angular speed of the winding machine is measured during the high driving procedure and/or the stop procedure and converted into a thread speed, and the yarn tenioner is driven by the thread speed as input for the control. The braking force is calculated from the motor-specific parameters of driving motor of the yarn tenioner for controlling the yarn tenioner. A disturbance variable compensation (24) with the thread speed is calculated as input correction variable (34) around the motor inertia and the friction value of the driving motor for the determination of a correcting variable (32) for the braking force. The actual value of the thread tension of each thread is detected by a thread tension sensor and regulated by an automatic controller (25) on the desired value. Independent claims are included for: (1) control and regulator arrangement; and (2) a warp creel.

IPC 8 full level

**D02H 13/24** (2006.01)

CPC (source: EP KR US)

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Cited by

CN114145939A; CN103132200A; US2021188590A1; US11597624B2

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