

Title (en)

Weft feeder for textile machines with a weft-braking device

Title (de)

Schussfadenliefervorrichtung für Textilmaschinen mit einer Fadenbremsvorrichtung

Title (fr)

Fournisseur de trame pour machine textile avec dispositif de freinage de trame

Publication

EP 2014809 A1 20090114 (EN)

Application

EP 07425433 A 20070713

Priority

EP 07425433 A 20070713

Abstract (en)

The yarn (F) is unwound from a yarn-storing drum (12) and is fed to a textile machine. A weft-braking device (18) is integral with a slide (22) movable along a direction parallel to the axis of the drum (12), and is provided with a hollow braking member (32) having a circular profile, which is coaxially biased, with its inner surface, against the delivery edge of the drum (12) by actuator means (20, 21) to brake the unwinding yarn. A yarn tension sensor (38) generates a measured tension signal (Tm) indicative of the tension of the yarn delivered from the drum. A control unit (CU) is programmed to compare the measured tension signal (Tm) with a reference tension signal (Tr) and to drive the actuator means (20, 21) in such a way as to minimize the difference between the measured tension and the reference tension. The control unit (CU) is programmed to generate a poor braking signal (Sib, Sib') when the reference tension (Tr) is higher than the maximum tension available with said actuator means at a stroke-end position, and an excessive braking signal (Seb, Seb') when the reference tension (Tr) is lower than the minimum tension available with said actuator means at a stroke-end position. Means for correcting the position (VD, M) of said slide (22, 23) are enabled by the poor braking signal (Sib, Sib') and the excessive braking signal (Seb, Seb').

IPC 8 full level

D03D 47/36 (2006.01)

CPC (source: EP)

D03D 47/366 (2013.01)

Citation (search report)

- [DA] EP 1059375 B1 20030917 - LGL ELECTRONICS SPA [IT]
- [A] EP 0707102 A2 19960417 - LGL ELECTRONICS SPA [IT]

Cited by

WO2013072736A1; ITMI20112091A1; DE102015118027B3; EP3170779A1; CN110997998A; US10655253B2; US9598261B2; US9475670B2; EP3159442A1; US9527694B2; US9562308B2; DE102014118743A1; US9540209B2

Designated contracting state (EPC)

BE CH DE IT LI SE

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2014809 A1 20090114; EP 2014809 B1 20100120; CN 101343002 A 20090114; CN 101343002 B 20120926; DE 602007004475 D1 20100311

DOCDB simple family (application)

EP 07425433 A 20070713; CN 200810131545 A 20080711; DE 602007004475 T 20070713