

Title (en)

Yarn feeder provided with a weft-winding drum and with a feedback-controlled, weft-braking device

Title (de)

Garnzuführvorrichtung mit Schussfaden-Wickeltrommel und feedbackgesteuerter Schussfaden-Bremsvorrichtung

Title (fr)

Dispositif d'alimentation en fil pourvu d'un tambour à canetage et avec dispositif double face commandé par rétroaction

Publication

EP 2829647 A1 20150128 (EN)

Application

EP 14001766 A 20140520

Priority

IT TO20130616 A 20130722

Abstract (en)

A drum (12) has a yarn (Y) wound thereon which is adapted to be unwound upon request of a downstream textile machine. A passive weft-braking device (22) exerts a predetermined, uncontrolled braking action upon the yarn (Y). A controlled weft-braking device (24) arranged downstream of the passive weft-braking device (22) is provided with a first series of comb-like arranged prongs (36) and with a second series of comb-like arranged prongs (40) inserted in an alternated configuration between the prongs (36) of the first series. The yarn (Y) runs in a zig-zag manner between the two series of prongs (36, 40) and receives a braking action by friction from them, which changes in strength depending on their relative position. A motor (46) drives the second series of prongs (40) with respect to the first one for adjusting the strength of the braking action. A tension sensor (50) measures the tension of the yarn (Y) unwinding from the drum (12) and generates a corresponding tension signal (T). A control unit (CU) controls the motor (46) by feedback based on the tension signal (T), in such a way as to stabilize the tension of the yarn (Y) on a desired level.

IPC 8 full level

B65H 59/30 (2006.01); **D03D 47/34** (2006.01); **D03D 47/36** (2006.01); **D04B 15/44** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP)

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Citation (applicant)

EP 0707102 A2 19960417 - LGL ELECTRONICS SPA [IT]

Citation (search report)

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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