

Title (en)

YARN PROCESSING SYSTEM AND METHOD FOR DELIVERING WEFT YARNS

Title (de)

FADENVERARBEITUNGSSYSTEM UND VERFAHREN ZUM LIEFERN VON SCHUSSFÄDEN

Title (fr)

SYSTEME DE TRAITEMENT DE FILS ET PROCEDE DE FOURNITURE DE FILS DE TRAME

Publication

EP 1141456 A1 20011010 (DE)

Application

EP 99964602 A 19991217

Priority

- DE 19858682 A 19981218
- EP 9910086 W 19991217

Abstract (en)

[origin: DE19858682A1] System (S) to prepare weft yarn for delivery to a loom (L) has a yarn feed (F) with a controlled yarn brake (B) in the path of the weft to the loom shed (H). A probe (7) registers the weft (Y) tension, and sends a signal (f) for the tension value to a tensiometer (T) to control the yarn brake. A separation unit (P) is in the weft yarn path at the tensiometer (T). System (S) to prepare weft yarn for delivery to a loom (L) has a yarn feed (F) with a controlled yarn brake (B) in the path of the weft to the loom shed (H). A probe (7) registers the weft (Y) tension, and sends a signal (f) for the tension value to a tensiometer (T) for the yarn brake to be controlled according to the measured yarn tension. A separation unit (P) is in the weft yarn path at the tensiometer (T) to give a temporary separation between the weft (Y) and the probe (7) in the event of a zero tension signal (f0) for the evaluation unit (G). Preferred Features: The separation unit (P) has a setting drive (10) connected to a control unit (M). A data link is between the control (M) or the setting drive (10) and the signal evaluation unit (G) for a report signal (d) to show the setting of the separation unit (P). The separation unit (P) has at least one lifter (9) to grip the weft (Y), at least in the separation setting, using a weft deflection rod or eyelet. The separation unit (P) can be brought to the probe (7) or tensiometer in an adjustable position. The adjustment setting drive (10) uses electromagnets, an electromotor or a pneumatic cylinder. The signal evaluation unit (G) has a calibration section (K) to calibrate the yarn tension signals (f) on a given start value, preferably the zero tension value (f0). An Independent claim is included for the intermittent delivery of weft yarns to the loom shed where, on a zero weft yarn (Y) tension measurement signal, the weft is temporarily separated from the probe (7) for calibration using a zero tension signal (f0) for a subsequent control action. Preferred Features: The separation and calibration actions take place between weft insertions into the loom shed.

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D03D 47/34

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