

Title (en)

Yarn-feeding/recovering method for textile machines, and apparatus for carrying out such method

Title (de)

Garnzuführungs-/rückgewinnungsverfahren für Textilmaschinen, und Vorrichtung zur Durchführung eines solchen Verfahrens

Title (fr)

Procédé de récupération/alimentation en fils pour machines textiles et appareil permettant de mettre en oeuvre ce procédé

Publication

EP 2642004 A1 20130925 (EN)

Application

EP 12008643 A 20121228

Priority

IT TO20120261 A 20120322

Abstract (en)

A textile machine (22, 106) receives yarn (F, F') from a yarn-feeding device (12, 100) via a yarn-recovering device (32, 120) provided with a motorized reel (34, 122) having a passage (44, 124) for the yarn, which extends between an inlet port (44a, 126) open to the middle of the free end (34a, 122a) of the reel and an outlet port (44b, 126) formed on the lateral surface (34b, 122b) of the reel. The yarn-recovering device (32, 120) is operable for temporarily recovering an amount of yarn already delivered to the machine and for giving it back at a later time. The tension of the yarn (F, F'), with said reel (34, 122) in a position of minimum interference with the yarn, is maintained constant on a reference value (T_{ref}, T'_{ref}) by adjusting means (28, 102), on the basis of a measured tension signal (T_{meas}, T'_{meas}) generated by sensor means (30, 108). A consumption indicator (LE, V_{RP}) is obtained, which is indicative of the delivery of yarn from the yarn-feeding device (12, 100) and is independent from any operative signals from the textile machine (22, 106). If the consumption indicator (V_{RP}, LE) detects an interruption in the delivery of yarn, the adjusting means (28, 102) are temporarily disabled and the yarn-recovering device (32, 120) is temporarily enabled to rotate at a speed modulated on the basis of the measured tension signal (T_{meas}, T'_{meas}) for maintaining the tension of the yarn constant on the reference value (T_{ref}, T'_{ref}).

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- EP 2031106 A1 20090304 - LGL ELECTRONICS SPA [IT]
- EP 0622485 A1 19941102 - LGL ELECTRONICS SPA [IT]
- EP 1741817 A1 20070110 - LGL ELECTRONICS SPA [IT]
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Citation (search report)

- [AD] EP 1741817 A1 20070110 - LGL ELECTRONICS SPA [IT]
- [AD] EP 2031106 A1 20090304 - LGL ELECTRONICS SPA [IT]
- [A] EP 2415916 A1 20120208 - LGL ELECTRONICS SPA [IT]

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Designated extension state (EPC)

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