

Title (en)

Tension control and slack eliminating device for a yarn winder

Title (de)

Vorrichtung zur Fadenspannungsregelung und zur Beseitigung von Fadenlockerungen in einer Garnwickleinrichtung

Title (fr)

Dispositif de réglage de tension et d'élimination des relâchements de fil pour un dispositif de bobinage

Publication

EP 1457446 A3 20050427 (EN)

Application

EP 04003082 A 20040211

Priority

- JP 2003067526 A 20030313
- JP 2003070122 A 20030314
- JP 2003072677 A 20030317

Abstract (en)

[origin: EP1457446A2] The present invention prevents a yarn from being excessively tensed and broken owing to an increase in yarn tension when the yarn is wound around a slack eliminating roller during a yarn splicing operation. A yarn threading member 22 is arranged at a position where it can engage with a yarn on the shortest yarn path between an upstream side guide 23 and a downstream side guide 36 arranged upstream and downstream, respectively, of a slack eliminating roller 21. The upstream side guide 23 constitutes yarn moving means for moving the yarn from the shortest yarn path to a yarn path on which the yarn does not engage with the yarn threading member 22. If a yarn splicing operation is to be performed, then before the start of the operation, the yarn moving means holds the yarn away from the yarn path corresponding to the shortest distance and at a position at which the yarn does not engage with the yarn threading member 22. Then, immediately before the yarn splicing operation, the yarn is moved to the position of the yarn path corresponding to the shortest distance and is then engaged with the yarn threading member 22. Accordingly, the direction of the operation of engaging the yarn with the yarn threading member 22 does not involve an increase in yarn tension. Therefore, the yarn can be reliably prevented from being excessively tensed and broken (Fig. 4). <IMAGE>

IPC 1-7

B65H 51/22; **B65H 59/18**; **D01H 13/10**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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