

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 1457447 B1 20120606 (EN)

Application

EP 04003083 A 20040211

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- JP 2003070122 A 20030314
- JP 2003072675 A 20030317
- JP 2003072676 A 20030317

Abstract (en)

[origin: EP1457447A2] The present invention stabilizes a yarn tension in a yarn winder in which a plurality of winding units are disposed, each of the winding units being provided with a yarn slack eliminating device. A transmitted force adjusting mechanism is provided to adjust a rotative driving force transmitted by a slack eliminating roller 21 of a yarn slack eliminating device 10 to an unwinding tension applying member 22. The transmitted force adjusting mechanism can be set so that when a load acting on the unwinding tension applying member 22 increases above a predetermined value, the unwinding tension applying member 22 rotates or rotatively moves independently of the slack eliminating roller 21. When winding tension is weak, the unwinding tension applying member 22 rotates integrally with the slack eliminating roller 21 to tense a yarn. When the winding tension exceeds a predetermined value, the unwinding tension applying member 22 prevents the winding tension from becoming excessive to suppress a variation in tension. When the transmitted force adjusting mechanism is configured so as to vary the force transmitted to the unwinding tension applying member, it is easy to deal with spinning conditions (Fig.4). <IMAGE>

IPC 8 full level

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CPC (source: EP)

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Cited by

US11377761B2; EP2573235A3; EP2808283A1; CN102139820A; EP2354069A3; CN110592744A; US2022403562A1; EP2962973A1; US9004259B1; EP3670410A4

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