

Title (en)

Method to take up a thread onto a cross-wound bobbin.

Title (de)

Verfahren zum Aufwickeln eines Fadens zu einer Kreuzspule.

Title (fr)

Méthode pour pelotonner un fil pour former une bobine croisée.

Publication

EP 0235557 A2 19870909 (DE)

Application

EP 87101028 A 19870126

Priority

- DE 3602853 A 19860131
- DE 3608816 A 19860318
- DE 3616362 A 19860515

Abstract (en)

[origin: US4913363A] A method for winding a textile yarn into a package is disclosed, and which is characterized by the ability to produce relatively large packages which are adapted to permit a high speed unwinding by withdrawal of the yarn over one end of the package. The method involves controlling the yarn traverse guide so as to include stroke modification cycles during which the traverse stroke is progressively increased in length and then decreased, and such that a plot of the location of the stroke end points vs. time defines a parabola-like, arcuate curve. The exact shape of the curve is designed so as to produce a cylindrical wind in the end area, which is slightly greater in diameter than the diameter of the medial portion of the package. In addition, the traversing speed of the yarn guide and the circumferential speed of the package may be constantly accelerated and decelerated to avoid undesirable patterns, with the changes in speed being coordinated with the stroke modification cycles to provide a uniform yarn tension in the package.

Abstract (de)

Beim Aufwickeln eines Fadens zu einer Kreuzspule findet in abwechselnden Zyklen eine Verkürzung und Verlängerung des Changierhubes (Atmung) statt. Die Atmung erfolgt nach einem wellenförmigen Zeitdiagramm, so daß der Faden im Umkehrbereich zu einer zylindrischen Wicklung verlegt wird. Diese zylindrische Wicklung hat einen geringfügig größeren Durchmesser als die übrige Spule. Es ist möglich, die Atmung mit der Spiegelstörung synchron laufen zu lassen.

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IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- EP 0173118 A2 19860305 - BARMAG BARMER MASCHF [DE]
- EP 0027173 A1 19810422 - BARMAG BARMER MASCHF [DE]
- US 4325517 A 19820420 - SCHIPPERS HEINZ, et al
- US 3730448 A 19730501 - SCHIPPERS H, et al
- DE 1916580 A1 19701015 - BARMAG BARMER MASCHF
- US 3730448 A 19730501 - SCHIPPERS H, et al
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- DE 1916580 A1 19701015 - BARMAG BARMER MASCHF
- US 3730448 A 19730501 - SCHIPPERS H, et al

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DE19835888B4; FR2845073A1; US6065712A; DE19807030B4; CN109748143A; US7163174B2; US7028943B2; US6283401B1; US6186435B1; US6523774B2; WO2004028943A3

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