

Title (en)

Method and device for traversing of yarn on textile machines

Title (de)

Verfahren und Vorrichtung zum Changieren eines Fadens auf einer Textilmaschine

Title (fr)

Procédé et dispositif de va-et-vient de fil sur une machine textile

Publication

EP 2567918 A2 20130313 (EN)

Application

EP 12183041 A 20120905

Priority

CZ 2011553 A 20110906

Abstract (en)

The invention relates to the method for traversing of yarn (3) upon its winding on bobbin (72) mounted in winding mechanism of an operating unit of textile machine, at which the traversing motion of yarn (3) is generated through a straight-line reciprocating motion of traversing rod (2) being common for a row of operating units, while before dead centre of the traversing rod (2) its kinetic energy is transformed to potential energy, which contributes to deceleration in motion of the traversing rod (2), behind dead centre the potential energy of the traversing rod (2) changes to kinetic energy, which contributes to acceleration in motion of the traversing rod (2). Before dead centre of the traversing rod (2) in the first phase of its deceleration its kinetic energy transforms to potential energy of magnetic field, and in the second phase of deceleration to potential energy of a field of elastic forces, subsequently behind dead centre of the traversing rod (2) in the first phase of acceleration of the traversing rod (2) the potential energy of the field of elastic forces transforms to kinetic energy of the traversing rod (2), and in the second phase of its acceleration the potential energy of magnetic field transforms to its kinetic energy. The invention also relates to the respective device for traversing yarn (3) on textile machines.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- CZ 232397 A3 19990217 - SAFAR VACLAV [CZ]
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