

Title (en)

A METHOD OF DETECTING THE PRESENCE OF A SLIVER AT THE ENTRANCE OF A WORKSTATION OF A TEXTILE MACHINE FOR THE PROCESSING OF THE SLIVER, IN PARTICULAR A MACHINE FOR PRODUCING YARN, A DEVICE FOR PERFORMING THE METHOD, A SLIVER FEEDING OR DRAFTING DEVICE AND A TEXTILE MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DETEKTIEREN DES VORHANDENSEINS EINES FASERBANDES AM EINGANG EINER TEXTILMASCHINE

Title (fr)

PROCÉDÉ POUR DÉTECTER LA PRÉSENCE D'UN RUBAN À L'ENTRÉE D'UN POSTE DE TRAVAIL D'UNE MACHINE TEXTILE

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Application

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Abstract (en)

The invention relates to a method for detecting the presence of sliver (18) at the entrance of a workstation of a textile machine for processing the sliver (18), in particular at the entrance of a textile machine for the production of yarn from the sliver, during which the monitored sliver (18) is conveyed at the entrance of the workstation of the machine by a sliver feeding device (3) or by a sliver drafting device (2) and the sliver feeding device (3) or drafting device (2) is driven by at least one individual electric drive (30, 50) connected to a control device (11) equipped with a regulation loop for controlling the drive (30,50), wherein at least one quantity corresponding to the current load of said drive (30,50) is monitored and the sensed quantity is evaluated. As the quantity sensed during the process of producing yarn (14) and/or during the process of resuming spinning is sensed the size of the supply current I and/or the value of the power input P and/or the speed S of rotation of the electric drive (30,50) of the feeding device or the drafting device, and during the process of producing yarn (14) and/or during the process of resuming spinning, a change in the size of the supply current I and/or a change in the value of the power input P and/or a change in the speed S of rotation of said individual electric drive (30, 50) is detected, whereupon, when a change in the sensed quantity is detected, the size of this change is evaluated and is compared to the set decision level R of the change in the size of the sensed quantity, and according to the result of this comparison, the occurrence of the transient phenomenon of said drive (30, 50) is determined and information about the change in the presence of the sliver (18) in the feeding device (3) or the drafting device (2) is generated, in particular information about the moment of introduction of the sliver is generated and information about the moment of interruption of the sliver feed is generated, or the occurrence of a transient phenomenon of said drive (30, 50) is not detected and information about ongoing feeding of the sliver (18) is generated or information about non-progressive feeding of the sliver (18) is generated. The invention also relates to a device for detecting the presence of a sliver (18) in a drafting device (2) or a feeding device (3) or at a workstation of a textile machine. The invention also relates to the drafting device (2) or to the feeding device (3) of a textile machine for processing a sliver and a textile machine with these devices.

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