

Title (en)

Thread control device for a textile machine.

Title (de)

Vorrichtung zur Fadenüberwachung an einer Textilmaschine.

Title (fr)

Dispositif de contrôle de fil de trame pour machine textile.

Publication

EP 0365471 A1 19900425 (DE)

Application

EP 89810711 A 19890920

Priority

CH 389188 A 19881019

Abstract (en)

[origin: JPH02154023A] PURPOSE: To provide a device for monitoring a thread on a textile machine capable of simultaneously performing the monitor of the presence of thread and quality control of thread by installing a light emitter at one side of a thread path and a light receptor at the other side and passing a light beam radiated from the light emitter through a specific position. CONSTITUTION: In this device for monitoring a thread equipped with a monitoring needle which is brought into contact with a thread traveling on a textile machine, especially a warper and displaces a pivotal motion when the thread is cut, a light emitter 7 is installed at one side of a thread path and a light receptor 16 is disposed at the other side. A light beam 29 radiated from the light emitter 17 is passed through the plane of the thread and the pivotal movement region between a thread contact position and a displacement position of a monitoring needle 19. A control signal is released by the irregular part of the thread in the plane of the thread or the pivotal movement of the monitoring thread 19.

Abstract (de)

Eine Wächternadel (19) ist unter Federvorspannung in einem Gehäuse (18) drehbeweglich gelagert. In der Ebene des Fadens (5) und im Schwenkbereich der Wächternadel (19) ist eine Lichtsender-/Lichtempfänger-Anordnung am Gehäuse (18) befestigt, welche sowohl bei Fadenunregelmässigkeit als auch beim Ueberfahren der Wächternadel ein Steuersignal produziert.

IPC 1-7

D02H 13/08

IPC 8 full level

B65H 63/028 (2006.01); **D02H 3/00** (2006.01); **D02H 13/08** (2006.01)

CPC (source: EP US)

D02H 13/08 (2013.01 - EP US)

Citation (search report)

- [AD] US 4100425 A 19780711 - OHSAWA SHIUI
- [AD] CH 417491 A 19660715 - STRAKE MASCHF NV [NL]
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- [AD] FR 2150357 A1 19730406 - NORDISKA MASKINFILT AB
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EP0980920A1; DE4142078A1; US6375111B1; WO0028119A3

Designated contracting state (EPC)

CH DE ES FR IT LI

DOCDB simple family (publication)

EP 0365471 A1 19900425; **EP 0365471 B1 19921216**; CH 679866 A5 19920430; DE 58903031 D1 19930128; JP H02154023 A 19900613; US 4976018 A 19901211

DOCDB simple family (application)

EP 89810711 A 19890920; CH 389188 A 19881019; DE 58903031 T 19890920; JP 27014989 A 19891017; US 41971289 A 19891011