

Title (en)

Method for monitoring the weft thread in a loom

Title (de)

Verfahren zum Überwachen des Schussfadens in einer Webmaschine

Title (fr)

Procédé pour surveiller le fil de trame dans un métier à tisser

Publication

EP 1350878 A1 20031008 (DE)

Application

EP 02007476 A 20020402

Priority

EP 02007476 A 20020402

Abstract (en)

A focused light beam (8c) is used for sensing. It is determined whether the weft (1) is at the correct location along the desired path of introduction into the shed, at appropriate positions and instants during the machine cycle. The beam is positioned to be interrupted by the weft, when it is on the right path. The weft is deflected to the side in accordance with the machine cycle, such that it passes through the beam during deflection. The instant at which they intersect, is compared with a desired interval (T1). A fault is deduced, should intersection not occur in interval T1, or if intersection occurs in intervals (T2a) or (T2b) before or after T1. A thread-tensioning deflector (3) moves the weft, in accordance with the machine cycle. The duration of weft intersection is compared with a desired interval, measuring also the deflector motion and arranging the light beam suitably. The loom is a shuttle machine, operated with a similar arrangement. Individual weft measurement times are determined for comparison with measured values.

Abstract (de)

In einer Webmaschine ist nach der Fadenbremse (2) und vor dem Fach (5) ein gebündelter Lichtstrahl vorgesehen, mit welchem die Position des Schussfadens (1) geprüft werden kann. Dabei wird zu mindestens einem Zeitpunkt im Maschinenzyklus und an mindestens einem Ort entlang des Sollwegs des Schussfadens gemessen, ob sich der Schussfaden auf dem Sollweg befindet. Bei Abweichungen wird auf einen Fehler geschlossen. Dadurch können auch noch späte Fadenbrüche zuverlässig erkannt werden. <IMAGE>

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 252 (C - 0844) 26 June 1991 (1991-06-26)

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