

Title (en)

Device to cut a weft to be inserted and system to insert a weft with such device

Title (de)

Vorrichtung zum Abtrennen eines einzutragenden Schussfadens und Anordnung zum Eintragen eines Schussfadens mit einer derartigen Vorrichtung

Title (fr)

Dispositif pour couper un fil de trame à insérer et système pour insérer un fil de trame avec un tel dispositif

Publication

EP 0953664 A1 19991103 (DE)

Application

EP 98810375 A 19980428

Priority

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Abstract (en)

The apparatus to cut a weft yarn (23), for insertion through the shed of a gripper loom, has a cutter (21) and a holding mechanism (22). A control system (6) generates signals for the two units so that the weft (23) is either released or cut. The control (6) is a sensor where the draw tension on the weft determines whether it is to be released or cut. Or it is a signal generator at the yarn feed, where its lie determines whether it is to be released or cut. The weft holder (22) has a mechanism at the weft yarn path to retain the yarn, when the unit is in the rest position. In the operating position it is outside the yarn path to release the weft for cutting. The cutter (21) has a rotating blade, and the holder has a function to lay the yarn against its cutting edge. The cutter has a circular cutting edge, or the moving blade is divided into a number of cutting edges, and can be a moving blade working together with a fixed blade forming the holder. The assembly has electromagnets to operate the units. The assembly is controlled to cut the weft at time intervals and/or set lengths as the weft is drawn off for use.

Abstract (de)

Die Vorrichtung weist eine Schneideinrichtung (21) und eine Halteeinrichtung (22) für den Schussfaden (23) auf. Die Halteeinrichtung (22) ist über eine Steuereinheit (28) mit einem Mittel (6) signalübertragend verbunden, um den Schuss in Abhängigkeit von einer Messgrösse, z.B. der Fadenzugkraft freizugeben oder abzutrennen. Damit werden Schussfehler vermieden. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

D03D 47/125 (2013.01); **D03D 47/34** (2013.01); **D03D 49/70** (2013.01)

Citation (search report)

- [A] EP 0284766 A1 19881005 - PICANOL NV [BE]
- [A] EP 0344100 A1 19891129 - SULZER AG [CH]
- [A] EP 0129812 A2 19850102 - VAMATEX SPA [IT]
- [A] EP 0357975 A2 19900314 - VAMATEX SPA [IT]

Cited by

CN109162006A; CN102181998A; CN105765122A; BE1022855B1; EP1367158A1; DE10224079B3; US10221508B2; WO2015059670A1

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