

Title (en)

Apparatus for disposing of weft yarn piece in a jet loom.

Title (de)

Vorrichtung zum Entfernen van Schussfadenteilen in Düsenwebmaschinen.

Title (fr)

Dispositif pour retirer des pièces de fil de trame dans un métier à jet.

Publication

EP 0483068 A1 19920429 (EN)

Application

EP 91810811 A 19911021

Priority

JP 28667690 A 19901023

Abstract (en)

The apparatus for disposing of a weft (Y3) piece in a jet loom comprises a pair of weft piece sensors (23A, 24A; 23B, 24B), disposed at the terminal side of weft picking passage. If a weft yarn breaks, the weft piece withdrawing device withdraws one piece (Y3) of the broken weft with a pair of weft piece withdrawing rollers (27, 29) disposed between said paired weft piece sensors (21A, 22A; 23A, 24A; 23B, 24B). The withdrawing rollers (27, 28) form, when put together a drum, that serves as a measuring drum for the weft yarn piece when it is wound on that drum. Another weft yarn withdrawing device (8, 9, 11, 12, 17, 16, 17, 18) placed at the entering side of the weft picking passage, provides for withdrawing the weft yarn piece (Y1) upstream the breaking point of the broken weft (Y). The withdrawing devices generate signals representative for the length of the withdrawn yarn pieces (Y1, Y3) of the broken weft. These signals are fet to a computer (C). In this computer (C) the sum of the length of the yarn pieces is compared with the preset nominal weft yarn length. If the sum of the removed yarn pieces is equal or greater than the nominal weft length the loom is automatically restarted; this based on the assumption that the broken weft has been totally removed. If the sum of the pieces is shorter than the nominal weft length, the loom is not restarted and calls for service personnel care. <IMAGE>

IPC 1-7

D03D 47/00

IPC 8 full level

D03D 51/00 (2006.01); **D03D 51/08** (2006.01); **D03D 51/34** (2006.01)

CPC (source: EP)

D03D 51/085 (2013.01)

Citation (search report)

- [A] US 4890650 A 19900102 - MITSUYA KINPEI [JP]
- [AD] EP 0236597 A1 19870916 - TSUDAKOMA IND CO LTD [JP]
- [A] US 4664157 A 19870512 - SHIN TOKUJIROU [JP]

Cited by

EP0584738A1; US5345975A; CN114318695A

Designated contracting state (EPC)

BE DE FR IT

DOCDB simple family (publication)

EP 0483068 A1 19920429; JP 2969906 B2 19991102; JP H04163345 A 19920608

DOCDB simple family (application)

EP 91810811 A 19911021; JP 28667690 A 19901023