

Title (en)

Weft handling apparatus in a jet loom.

Title (de)

Vorrichtung zum Behandeln von Schussfaden in eine Düsenwebmaschine.

Title (fr)

Dispositif pour traiter le fil de trame dans un métier à tisser à jet.

Publication

EP 0492745 A1 19920701 (EN)

Application

EP 91203417 A 19911228

Priority

JP 41735490 A 19901228

Abstract (en)

The faulty weft removing device for a jet loom, comprises a weft breakage detecting means (18) disposed on the weft receiving side of the jet loom. A weft extracting means provided preferably with a pair of extraction rollers (26, 31) grips a broken weft that is broken from a weft extending from the weft feed package. The weft extracting means is capable of moving the pair of extraction rollers (26, 31) from a position near the cloth fell (W1) of the fabric toward the reed (4) of the jet loom, as to separate the broken weft from the cloth fell (W1). When rotating the pair of extraction rollers (26, 31) the broken weft is pulled toward the weft receiving side and the broken weft is extracted from the shed. A yarn removing suction device (21a, 21, 34) having a suction opening extending over the range of swing motion of the reed includes a first yarn detecting means (33) interposed between the yarn removing suction means and the gripping range in which the pair of rollers (26, 31) grip the broken weft. A second yarn detecting means (22) is disposed on the suction passage of the yarn removing suction device (21a, 21, 34). A rotation detecting means (25) like e.g. a step motor provides for detecting the rotation of the pair of extraction rollers (21, 34) and a the computer (C) determines the yarn length broken weft on the basis of yarn detection information provided by the first and second yarn detecting means (22, 33) and information provided by the rotation detecting means (25). The device provides for restarting the loom only after removal of the entire length of the broken weft from the shed. <IMAGE>

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CPC (source: EP)

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Citation (search report)

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

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