

Title (en)

Method and device for obtaining pure weft waste of catch selvages

Title (de)

Verfahren und Vorrichtung zum Erzeugen von sortenreinem Schussfadenabfall aus fangleisten

Title (fr)

Procédé et dispositif pour obtenir des déchets de fil de trame purs des lisières de retenue

Publication

EP 0918103 A3 20000315 (DE)

Application

EP 98114508 A 19980803

Priority

DE 19743611 A 19971002

Abstract (en)

[origin: DE19743611A1] To recover waste weft material from a catch selvage, sorted according to weft types, the full-cross leno is twisted out after the catch selvage has been cut from the woven fabric. The weft ends and the leno yarns are taken off separately. In an Independent claim, the apparatus has a control (8) to take off the material. A unit (5) to twist out the full-cross leno (1a) is on a linear extension of the catch selvage (1). A takeoff unit (6) is between the twisting unit (5) and the catch selvage (1), and a takeoff (7) leads the leno yarns (4) away. Preferred Features:- The working stages are effected by units with electrical controls. The twisting out of the full-cross leno is synchronized or is asynchronous with its formation, using an electrically controlled untwisting mechanism, with reversing rotation. The leno yarns are taken off by an electrically controlled takeoff. The weft ends are separated, and collected separately according to the weft types, and the leno yarns are collected separately. The wefts are collected separately, by type, by an electrically controlled waste removal system or by a common electrical drive, operating according to the sequence of weft insertions during fabric weaving, and the weft selection program. The unit (5) to twist out the full-cross leno (1a) has a rotating body (5a) to take the leno yarns (4), with reversible rotation. The rotary drive (5b) for the rotating body (5a) is an external electric motor. Alternatively the rotating body (5a) is the rotor of an electrically controlled setting motor. The weft ends (3a) are extracted (6a) as they move past the cleaning point, to be taken to at least one collection point (6b). The takeoff (7), for the leno yarns (4), has a pair of rollers (7a,7b) with at least one powered roller (7a) as the loom fabric take-in roller with the idle roller (7b) pressed against it. The leno yarn (4) takeoff (7) can also be a pair of rotated bobbins.

IPC 1-7

D03D 47/40

IPC 8 full level

D03C 7/04 (2006.01); **D03D 47/40** (2006.01); **D03J 1/04** (2006.01)

CPC (source: EP)

D03C 7/04 (2013.01); **D03D 47/40** (2013.01)

Citation (search report)

- [DA] DE 29708758 U1 19970731 - DORNIER GMBH LINDAUER [DE]
- [DA] EP 0127719 A1 19841212 - RUETI AG MASCHF [CH]
- [A] US 4513791 A 19850430 - DILLON DOUGLAS M [US]
- [A] US 4453572 A 19840612 - KEY WORTH M [US]
- [A] GB 2021161 A 19791128 - ROSSVILLE MILLS INC
- [A] PATENT ABSTRACTS OF JAPAN vol. 095, no. 002 31 March 1995 (1995-03-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 425 (C - 0982) 7 September 1992 (1992-09-07)

Cited by

CN106192172A; CN108796789A; CN108385247A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19743611 A1 19990415; **DE 19743611 C2 20010523**; DE 59810896 D1 20040408; EP 0918103 A2 19990526; EP 0918103 A3 20000315; EP 0918103 B1 20040303; JP H11140749 A 19990525

DOCDB simple family (application)

DE 19743611 A 19971002; DE 59810896 T 19980803; EP 98114508 A 19980803; JP 25650798 A 19980910