

Title (en)

Apparatus for preventing weaving bar in a loom.

Title (de)

Vorrichtung für das Vermeiden von Schussbanden in eine Webmaschine.

Title (fr)

Dispositif pour empêcher des bandes en trames dans un métier à tisser.

Publication

EP 0504110 A1 19920916 (EN)

Application

EP 92810168 A 19920305

Priority

JP 4032791 A 19910306

Abstract (en)

The apparatus prevents formation of a swelled weaving bar which is caused by interference of the reed and the cloth fell during slow rotation of the loom in forward or reverse direction. The let-off motor (1) is rotated at a slow rate in forward direction in advance of the subsequent slow forward or reverse rotation of the main motor (M) for removal of a faulty weft yarn. Operation of the let-off motor (1) is controlled by a computer control (C) and the motor is forward rotated for a predetermined amount so as to displace the cloth fell (W1) toward the fabric (W, or retract it away from the swinging area of the reed 6. In restarting the weaving operation, the let-off motor (1) is slow rotated in reverse direction to return the cloth fell to its original position. The rotation of the let-off motor (1) is monitored by the rotary encoder (1a) incorporated therein and connected to the computer control (C 1a) so that the control (C) can determine whether or not the cloth fell displacement is accomplished properly. In the event of any abnormality in the cloth fell displacement, the warp tension detected by the load cell (15) is restored to the tension (F) detected by the load cell immediately before the commencement of the cloth fell displacement. <IMAGE>

IPC 1-7

D03D 49/10; D03D 51/00

IPC 8 full level

D03D 49/06 (2006.01); **D03D 49/10** (2006.01); **D03D 49/12** (2006.01); **D03D 51/00** (2006.01); **D03D 51/12** (2006.01); **D03D 51/28** (2006.01); **D03D 51/34** (2006.01)

CPC (source: EP)

D03D 47/30 (2013.01); **D03D 49/10** (2013.01); **D03D 51/002** (2013.01); **D03D 51/005** (2013.01); **D03D 51/08** (2013.01); **D03D 51/18** (2013.01)

Citation (search report)

[A] EP 0376338 A2 19900704 - TOYODA CHUO KENKYUSHO KK [JP], et al

Cited by

EP1460158A3; US5538048A; EP0607747A1; EP0629726A1; CN110258008A; EP1728907A1; EP0629725A1

Designated contracting state (EPC)

BE DE FR IT

DOCDB simple family (publication)

EP 0504110 A1 19920916; EP 0504110 B1 19950621; DE 69203012 D1 19950727; DE 69203012 T2 19960222; JP 2565004 B2 19961218; JP H04281046 A 19921006

DOCDB simple family (application)

EP 92810168 A 19920305; DE 69203012 T 19920305; JP 4032791 A 19910306