

Title (en)

METHOD AND APPARATUS FOR DETECTING YARN DEFECTS DURING PRODUCTION, IN PARTICULAR CHENILLE YARNS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DETEKTIEREN VON FADENFEHLERN WÄHREND DER HERSTELLUNG, INSBESONDERE BEI CHENILLE FÄDEN

Title (fr)

TECHNIQUE PERMETTANT DE DECELER DES DEFAUTS DU FIL, NOTAMMENT SUR DES FILS CHENILLES, EN COURS DE FABRICATION, ET APPAREIL CORRESPONDANT

Publication

**EP 1042208 B1 20020918 (EN)**

Application

**EP 98966419 A 19981230**

Priority

- EP 9808510 W 19981230
- IT PI980001 A 19980102

Abstract (en)

[origin: WO9935075A1] An apparatus for detecting defects on a yarn (2) during production comprises a detecting device (1) and, respectively upstream and downstream of it, braking deflector means (3) of the yarn (2) and cutting means (4a, 4b) of the yarn (2). The apparatus (1) comprises a drum (5), located between two shoulders (6), on which the yarn (2) passes substantially stretched and partially wound on the drum (5) so that it is pressed against its surface and the helix effect reduced. Light emitting means (7) are provided outside the drum (5), which is transparent and comprises inside an optical sensor (8). This way the light beam coming from the emitting means (7) projects the yarn (2) on the optical sensor (8), that detects continuously the amplitude of its shadow. When the optical sensor (8) detects an increase or decrease of transversal size of the yarn (2), beyond a predetermined threshold value, the yarn is stopped, is cut and then is joined again after having eliminated the defective portion. The apparatus (1) is particularly suitable for detecting defects on chenille yarns or fancy yarns.

IPC 1-7

**B65H 63/06**; **B65H 63/032**; **G01N 33/36**

IPC 8 full level

**B65H 63/032** (2006.01); **B65H 63/06** (2006.01)

CPC (source: EP)

**B65H 63/0324** (2013.01); **B65H 63/065** (2013.01); **B65H 2701/31** (2013.01)

Cited by

WO2006000107A3

Designated contracting state (EPC)

BE DE ES FR GB IT NL PT

DOCDB simple family (publication)

**WO 9935075 A1 19990715**; AU 2276999 A 19990726; DE 69808137 D1 20021024; DE 69808137 T2 20030528; EP 1042208 A1 20001011; EP 1042208 B1 20020918; HU P0100040 A2 20010628; IT 1304528 B1 20010319; IT PI980001 A0 19980102; IT PI980001 A1 19990702; PL 188682 B1 20050331; PL 341517 A1 20010423; TR 200002006 T2 20010723

DOCDB simple family (application)

**EP 9808510 W 19981230**; AU 2276999 A 19981230; DE 69808137 T 19981230; EP 98966419 A 19981230; HU P0100040 A 19981230; IT PI980001 A 19980102; PL 34151798 A 19981230; TR 200002006 T 19981230