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 A1 20001011 (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.

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IPC 8 full level

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CPC (source: EP)

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