

Title (en)

Yarn gripping and cutting device, particularly for striping yarn fingers for knitting machines or the like

Title (de)

Garneinspann- und Schneidevorrichtung, insbesondere für Ringeinrichtungen von Strickmaschinen oder dergleichen

Title (fr)

Dispositif de préhension de fil et de découpe, particulièrement pour doigts de fils à bandes pour machines à tricoter ou similaire

Publication

EP 2363519 A1 20110907 (EN)

Application

EP 11154804 A 20110217

Priority

IT MI20100364 A 20100305

Abstract (en)

A yarn gripping and cutting device, particularly for striping yarn fingers for knitting machines or the like, comprising an element (2) for holding the yarn (3) which has a laminar body having, on one of its sides, a recess (6) adapted to receive the yarn (3) to be gripped and cut. Laterally to the holding element (2), on mutually opposite sides, there is respectively a gripping element (4) and a cutting element (5). The holding element (2) and the gripping element (4) are pushed elastically toward each other on their mutually facing sides. The holding element (2) is movable with respect to the gripping element (4) and to the cutting element (5) along an actuation direction (7) to pass from a standby position, in which the recess (6) is arranged at least partially outside the space occupation of the gripping element (4) and of the cutting element (5) in order to receive the yarn (3) to be gripped and cut, which straddles the recess (6) transversely to the actuation direction (7), to a retention position, in which the recess (6) is retracted between the gripping element (4) and the cutting element (5) to perform, in succession, the retention of a portion of the yarn (3), by way of its traction between the mutually facing sides of the holding element (2) and of the gripping element (4), and the cutting of the yarn (3), by way of the interference of the yarn (3) with the cutting element (5), and vice versa. The device comprises spacing means (11), which are interposed between the holding element (2) and the gripping element (4) in order to limit the extent of the stresses on the yarn (3) during its traction between the holding element (2) and the gripping element (4).

IPC 8 full level

D04B 15/60 (2006.01)

CPC (source: EP KR)

D04B 15/58 (2013.01 - KR); **D04B 15/60** (2013.01 - EP KR)

Citation (search report)

- [AD] WO 2008037339 A1 20080403 - SANTONI & C SPA [IT], et al
- [A] US 6000245 A 19991214 - PLATH ERNST-DIETER [DE], et al
- [A] WO 0073564 A1 20001207 - MECMOR SPA [IT], et al

Cited by

CN106319745A; EP3103905A1; WO2019160175A1; TWI610002B

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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EP 2363519 A1 20110907; **EP 2363519 B1 20141126**; CN 102191619 A 20110921; CN 102191619 B 20141210; IT 1398548 B1 20130301; IT MI20100364 A1 20110906; KR 20110101078 A 20110915; TW 201144504 A 20111216

DOCDB simple family (application)

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