

Title (en)

High-speed high-stand fabric take-up device with uniform fabric tautness arrangement

Title (de)

Hochbauende Hochgeschwindigkeitsgestrickabzugsvorrichtung mit Einrichtung zum Konstanthalten der Spannung im Gestrick

Title (fr)

Mécanisme d'enroulement d'un tricot haut sur jambes à haute vitesse avec dispositif pour établir une tension d'enroulement constante

Publication

EP 1731649 A1 20061213 (EN)

Application

EP 05104851 A 20050603

Priority

EP 05104851 A 20050603

Abstract (en)

Provided is a high-speed high-stand device (200) for taking up fabric (20) comprising two side boxes (210) each including a projection (211) formed on its side proximate top; a take-up shaft (220) provided across intermediate portions of the side boxes (210), the take-up shaft (220) being adapted to wind fabric (20) therearound; and a friction mechanism (230) including two arms (231) each having the other end (231a) pivotably connected to the projection (211), and a friction rod (232) fixedly interconnected one ends (231b) of the arms (231), the friction rod (232) being provided above the take-up shaft (220) to contact the fabric (20) wound therearound. In a fabric take-up process, an angle from an initial position of the arms (231) to an operating position thereof is limited as a diameter of the fabric (20) is increasing, and a pressing force exerted by the friction rod (232) on the fabric (20) being wound around the take-up shaft (220) is the same for obtaining a uniform tautness of the wound fabric (20).

IPC 8 full level

D04B 15/88 (2006.01)

CPC (source: EP)

D04B 15/88 (2013.01)

Citation (applicant)

- US 6637241 B1 20031028 - WANG PING-SHIH [TW]
- EP 0591988 A1 19940413 - PRECISION FUKUHARA WORKS LTD [JP]
- US 6000246 A 19991214 - HSIEH WEN-BIN [TW], et al
- GB 2276636 A 19941005 - SIPRA PATENT BETEILIGUNG [DE]

Citation (search report)

- [XY] EP 0591988 A1 19940413 - PRECISION FUKUHARA WORKS LTD [JP]
- [Y] US 6000246 A 19991214 - HSIEH WEN-BIN [TW], et al
- [A] GB 2276636 A 19941005 - SIPRA PATENT BETEILIGUNG [DE]

Cited by

EP2314534A1; EP2312030A1; CN107761241A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1731649 A1 20061213; EP 1731649 B1 20120307; AT E548491 T1 20120315; ES 2382194 T3 20120606; PL 1731649 T3 20120831

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