

Title (en)

Method and knitting machine for making knit articles, particularly articles from hard, inelastic yarn

Title (de)

Verfahren und Strickmaschine zur Herstellung von Strickwaren, insbesondere aus hartem, unelastischem Fadenmaterial

Title (fr)

Procédé et métier à tricoter pour la fabrication de tricot, notamment ceux obtenus à partir des fils durs inélastiques

Publication

EP 1469110 A1 20041020 (DE)

Application

EP 04007007 A 20040324

Priority

DE 10316702 A 20030408

Abstract (en)

Producing knitwear having stitches on a knitting machine comprises raising knitting needles at knitting systems to pick up threads, taking down the raised knitting needles into an intermediate position to pre-form the picked-up threads over sinkers to form loops of pre-selected lengths, and forming the stitches by drawing down the knitting needles into a lowermost position and raising the sinkers in an opposite direction. Producing knitwear having stitches from hard, inelastic thread material on a knitting machine provided with knitting needles and holding-down/knocking-over sinkers comprises raising knitting needles at knitting systems to pick up threads, taking down the raised knitting needles into an intermediate position to pre-form the picked-up threads over the sinkers to form loops of pre-selected lengths, and forming the stitches by drawing down the knitting needles from the intermediate position into a lowermost position and raising the sinkers in an opposite direction. An independent claim is also included for a knitting machine comprising a support, in which knitting needles (2) and holding-down/knocking-over sinkers (3) are disposed alternately beside one another, and knitting system(s) (8a, 8b), having a raising cam (22, 23) to raise the knitting needles, tread guide(s) to lay a thread into the raised knitting needles and a stitch-formation section with cams to assign opposite movements to the knitting needles and the sinkers to form stitches from the laid-in threads, wherein the butting system has between the raising cam and stitch-formation section a specific drawing-down edge (27a) drawing a raised knitting needle down into an intermediate position to form thread loops over the sinkers.

Abstract (de)

Es werden eine Strickmaschine und ein auf dieser auszuführendes Verfahren beschrieben, die zur Herstellung von Strickwaren aus hartem, unelastischem Fadenmaterial, z. B. aus Metallfäden, geeignet sind. Erfindungsgemäß werden an dafür vorgesehenen Stricksystemen (8a, 8b) Stricknadeln (2) zur Aufnahme von Fäden ausgetrieben, die anschließend über den Oberkanten von Abschlag/Einschließ-Platinen (3) zu Schleifen vorgeformt werden. Danach erfolgt die Maschenbildung durch entgegengesetzt gerichtete Nadel- und Platinenbewegungen nach Art der Relativtechnik (Fig. 3). <IMAGE>

IPC 1-7

D04B 9/02

IPC 8 full level

D04B 15/06 (2006.01); **D04B 1/14** (2006.01); **D04B 9/02** (2006.01); **D04B 15/32** (2006.01); **D04B 15/38** (2006.01)

CPC (source: EP KR US)

D04B 1/14 (2013.01 - KR); **D04B 9/025** (2013.01 - EP US); **D04B 15/06** (2013.01 - EP KR US); **D04B 15/32** (2013.01 - KR); **D04B 15/327** (2013.01 - EP US); **D04B 15/38** (2013.01 - KR); **D04B 35/04** (2013.01 - EP US)

Citation (applicant)

- DE 516317 C 19310121 - JOSEPH ALFRED MILLS
- DE 3145307 C2 19840517
- DE 4033735 C2 19990121 - SIPRA PATENT BETEILIGUNG [DE]
- DE 4129845 A1 19930311 - SIPRA PATENT BETEILIGUNG [DE]
- DE 3311361 A1 19841004 - SIPRA PATENT BETEILIGUNG [DE]
- DE 3348030 C2 19861009
- DE 3433290 C2 19860918
- DE 3928986 C2 19980827 - SIPRA PATENT BETEILIGUNG [DE]
- US 3054278 A 19620918 - HADDAD SALOMAO J

Citation (search report)

- [DXY] DE 3433290 A1 19860320 - SIPRA PATENT BETEILIGUNG [DE]
- [Y] US 3054278 A 19620918 - HADDAD SALOMAO J

Cited by

CN102182001A; EP2270270A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1469110 A1 20041020; CN 100494534 C 20090603; CN 1542186 A 20041103; DE 10316702 A1 20041028; JP 2004308102 A 20041104; KR 20040087939 A 20041015; SG 125952 A1 20061030; TW 200508444 A 20050301; TW I341884 B 20110511; US 2004200242 A1 20041014; US 6854294 B2 20050215

DOCDB simple family (application)

EP 04007007 A 20040324; CN 200410031282 A 20040326; DE 10316702 A 20030408; JP 2004102063 A 20040331; KR 20040023975 A 20040408; SG 200401903 A 20040406; TW 93108908 A 20040331; US 81848304 A 20040405