

Title (en)

Apparatus and method for transferring loops from the knitting machine needle

Title (de)

Vorrichtung und Verfahren zur Übertragung von Schleifen aus einer Strickmaschinennadel

Title (fr)

Appareil et procédé pour le transfert de boucles d'une aiguille de machine à tricoter

Publication

EP 2377979 B1 20150311 (EN)

Application

EP 11161131 A 20110405

Priority

TR 201002641 A 20100406

Abstract (en)

[origin: EP2377979A1] A transfer apparatus (100) for transferring a stocking (4) from a knitting machine to a stitching apparatus to close an open-end of the stocking (4) comprises strip and transfer members (2, 1). The knitting machine includes a needle (3) having a hook (3b) for forming a loop (41) at the open-end of the stocking (4), and a latch (3a) that is pivotal upward or downward to move to or away from the hook (3b). The strip member (2) is movable axially upward and downward and radially towards and away from the needle (3), and is capable of contacting the loop (41) on the needle (3) to push the loop (41) toward or away from the hook (3b). The transfer member (1) is disposed horizontally above the strip member (2), is movable axially upward and downward and radially toward and away from the needle (3), and includes a tip region (112) for receiving the loop (41) from the hook (3b) when the strip member (2) pushes the loop (41) to the hook (3b).

IPC 8 full level

D04B 9/40 (2006.01); **D04B 15/02** (2006.01)

CPC (source: EP)

D04B 1/108 (2013.01); **D04B 9/40** (2013.01); **D04B 15/02** (2013.01)

Citation (opposition)

Opponent : Lonati S.p.A.

- US 2001039816 A1 20011115 - FUJIWARA TOSHIFUMI [JP], et al
- EP 0518009 B1 19950830 - KOLBUS GMBH & CO KG [DE], et al
- US 4550577 A 19851105 - KUEHN FALK [DE], et al
- US 6591637 B2 20030715 - JUERGENS ERIC [DE]
- US 5487281 A 19960130 - FRULLINI ALBERTO [IT], et al
- US 5586453 A 19961224 - FRULLINI ALBERTO [IT], et al
- WO 2006048138 A1 20060511 - CESARE COLOSIO S P A [IT], et al
- EP 2080827 A1 20090722 - BIANCHI MASSIMO [IT]
- WO 2007135697 A1 20071129 - ORION SRL [IT], et al
- WO 2007110894 A2 20071004 - N T A S R L [IT], et al
- WO 2007135698 A1 20071129 - N T A SRL [IT], et al
- US 5551260 A 19960903 - FRULLINI ALBERTO [IT], et al
- US 7213418 B2 20070508 - MAXA JAROSLAV [CZ], et al
- FR 2223493 A1 19741025 - WIRKMASCHINENBAU KARL MARX VEB [DD]
- JP 2002266208 A 20020918 - NAGATA SEIKI KK
- IT MI20030841 A1 20041025 - MATEC SPA
- IT MI20030842 A1 20041025 - MATEC SPA

Cited by

EP3613882A1; CN113818146A; CN105887312A; CN107109727A; EP3187633A4; EP2873760A1; CN104652043A; EP3187632A4; CN110055689A; CN110846800A; US10145043B2; EP3613883A1; IT201900012417A1; IT201900005838A1; CN113286920A; US2022034007A1; EP2873761A1; US2015135776A1; CN104846541A; US9273422B2; WO2016055390A1; EP3613881A1; TWI726304B; JP2015096195A; WO2020211968A1; EP3514277A1; EP4067545A1

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

DOCDB simple family (publication)

EP 2377979 A1 20111019; EP 2377979 B1 20150311; ES 2534928 T3 20150430; PT 2377979 E 20150717; TW 201144506 A 20111216; TW I448595 B 20140811

DOCDB simple family (application)

EP 11161131 A 20110405; ES 11161131 T 20110405; PT 11161131 T 20110405; TW 100111253 A 20110331