

Title (en)

PRODUCTION METHOD FOR STRINGER FOR WOVEN SLIDE FASTENERS AND PRODUCTION DEVICE

Title (de)

HERSTELLUNGSVERFAHREN FÜR AUFZIEHER FÜR GEWEBTE REISSVERSCHLÜSSE UND HERSTELLUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE BANDE POUR FERMETURE À GLISSIÈRE TRICOTÉE

Publication

**EP 3387940 A4 20190814 (EN)**

Application

**EP 15910251 A 20151210**

Priority

JP 2015084678 W 20151210

Abstract (en)

[origin: EP3387940A1] [Problem] To more efficiently produce woven slide fasteners. [Solution] A production method for a stringer (90) for woven slide fasteners, in which a coil-shaped element row (95) is woven into one side edge of a fastener tape (91) for a knitted fabric. In this production method for stringers for woven slide fasteners: a monofilament is bent into a coil shape and formed into the element row as a result of the joint actions of a reciprocal action by two guides (34, 34) in the knitting width direction and the reciprocal action of two hooks (38, 38), when knitting an element row into the fastener tape by using the joint actions of a reciprocal action of a plurality of knitting needles (31) and the swing action and jogging action of a plurality of guide needles (32), said guides being arranged parallel to the knitting width direction so as to feed out linear monofilaments (94, 94) and said hooks being arranged parallel to the knitting width direction so as to move to a position separated from the position at which same are hooked around the monofilaments; and stringers are produced, in a set of chain productions units, such that two stringers having had the element row knitted into one side edge of the fastener tape form a set. In addition, a plurality of sets of stringers are produced in a parallel state by arranging a plurality of sets of chain production units parallel to the knitting width direction.

IPC 8 full level

**A44B 19/56** (2006.01); **D04B 21/14** (2006.01); **D04B 23/14** (2006.01)

CPC (source: EP)

**A44B 19/56** (2013.01); **D04B 21/14** (2013.01); **D04B 23/14** (2013.01); **D10B 2501/0631** (2013.01)

Citation (search report)

- [IDY] WO 2015097830 A1 20150702 - YKK CORP [JP]
- [Y] FR 2188976 A1 19740125 - ELASTELLE FONTA ILLE FIL [FR]
- [Y] US 4137733 A 19790206 - HEIMBERGER HELMUT
- See references of WO 2017098635A1

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 3387940 A1 20181017**; **EP 3387940 A4 20190814**; **EP 3387940 B1 20220810**; CN 107105834 A 20170829; TW 201720330 A 20170616; TW I620530 B 20180411; WO 2017098635 A1 20170615

DOCDB simple family (application)

**EP 15910251 A 20151210**; CN 201580002269 A 20151210; JP 2015084678 W 20151210; TW 105139773 A 20161202