

Title (en)

YARN FEEDING DEVICE FOR ELASTIC YARN FOR FLAT KNITTING MACHINE

Title (de)

FADENZUFÜHRVORRICHTUNG FÜR ELASTISCHES GARN FÜR EINE FLACHSTRICKMASCHINE

Title (fr)

DISPOSITIF D'ALIMENTATION EN FIL POUR FIL ÉLASTIQUE DE MACHINE À TRICOTER RECITLIGNE

Publication

EP 3401428 A1 20181114 (EN)

Application

EP 18171107 A 20180507

Priority

JP 2017092655 A 20170508

Abstract (en)

The magnitude of an entering tension of an elastic yarn to a sending-out mechanism (34) of a flat knitting machine and the magnitude of a knitting tension provided by a buffer arm (40) are compared with each other, and, based on a result of comparison, an appropriate correction amount is determined from a correction parameter (50) to control the sending-out mechanism (34). The correction parameter (50) includes a correction amount for increasing an amount of elastic yarn when the entering tension is larger than the knitting tension, and a correction amount for decreasing the amount of elastic yarn when the entering tension is smaller than the knitting tension. Correction amount determining means (48) determines an appropriate correction amount from the correction parameter (50). Controlling means (36) controls the sending-out mechanism (34) by using the correction amount determined by the correction amount determining means (48).

IPC 8 full level

D04B 15/50 (2006.01)

CPC (source: CN EP KR)

D04B 7/045 (2013.01 - EP); **D04B 15/38** (2013.01 - CN); **D04B 15/46** (2013.01 - CN KR); **D04B 15/50** (2013.01 - EP)

Citation (applicant)

- JP 4016030 B2 20071205
- JP 2541574 B2 19961009

Citation (search report)

- [AD] EP 1548163 A1 20050629 - SHIMA SEIKI MFG [JP]
- [A] EP 2251470 A1 20101117 - SHIMA SEIKI MFG [JP]
- [A] EP 1626113 A1 20060215 - SHIMA SEIKI MFG [JP]

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

DOCDB simple family (publication)

EP 3401428 A1 20181114; **EP 3401428 B1 20200610**; CN 108866785 A 20181123; CN 108866785 B 20200410; JP 2018188771 A 20181129; JP 6498232 B2 20190410; KR 101954658 B1 20190306; KR 20180123442 A 20181116

DOCDB simple family (application)

EP 18171107 A 20180507; CN 201810425310 A 20180507; JP 2017092655 A 20170508; KR 20180051112 A 20180503