

Title (en)

TENSION MEASURING DEVICE FOR KNITTING MACHINE AND TENSION MEASURING METHOD

Title (de)

SPANNUNGSMESSVORRICHTUNG FÜR STRICKMASCHINE UND SPANNUNGSMESSVERFAHREN

Title (fr)

DISPOSITIF DE MESURE DE TENSION POUR MACHINE À TRICOTER ET PROCÉDÉ DE MESURE DE TENSION

Publication

**EP 3567148 A1 20191113 (EN)**

Application

**EP 19173120 A 20190507**

Priority

JP 2018092147 A 20180511

Abstract (en)

There are provided a tension measuring device for a flat knitting machine and a tension measuring method for the same, with which tension of a yarn can be measured in such a manner that measured tension substantially accurately represents tension of the yarn to be knitted into fabric at a position after the yarn passes through a yarn feeding port so that problems can be prevented from occurring to the fabric due to abnormal tension of the yarn. In a flat knitting machine configured such that a yarn 20 is fed to needles via a feed path 2 with tension being applied to the yarn 20, a yarn drawing-in means 51 draws the yarn 20 being in a ready-for-knitting state, at a position after the yarn 20 passes through a yarn feeding port 153, into a measurement path 24 that is different from the feed path 2 to the needles. Subsequently, a measuring means 52 measures tension of the yarn 20 drawn into the measurement path 24 without performing knitting, and the tension of the yarn 20 measured at a position after the yarn feeding port 153 is displayed on a monitor 53.

IPC 8 full level

**D04B 37/02** (2006.01); **D04B 37/00** (2006.01)

CPC (source: CN EP KR)

**D04B 7/00** (2013.01 - EP); **D04B 15/44** (2013.01 - CN KR); **D04B 35/16** (2013.01 - KR); **D04B 37/02** (2013.01 - EP)

Citation (applicant)

JP 2951068 B2 19990920

Citation (search report)

- [X] WO 03093550 A1 20031113 - BAREA TIZIANO [IT]
- [A] WO 2016091286 A1 20160616 - MEMMINGER IRO GMBH [DE]
- [A] EP 0699792 A1 19960306 - 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 3567148 A1 20191113**; **EP 3567148 B1 20210811**; CN 110468493 A 20191119; CN 110468493 B 20210709; JP 2019196572 A 20191114; JP 7048407 B2 20220405; KR 102190613 B1 20201214; KR 20190129740 A 20191120

DOCDB simple family (application)

**EP 19173120 A 20190507**; CN 201910389212 A 20190510; JP 2018092147 A 20180511; KR 20190054097 A 20190509