Title (en)

Flat knitting machine and knitting method using flat knitting machine

Title (de)

Flachstrickmaschine und Strickverfahren unter Verwendung der Flachstrickmaschine

Title (fr)

Machine à tricoter plate et procédé de tricotage utilisant une telle machine

Publication

**EP 2775020 B1 20160406 (EN)**

Application

**EP 14020020 A 20140227**

Priority

JP 2013043397 A 20130305

Abstract (en)

[origin: EP2775020A1] Configuration: A flat knitting machine (2) includes at least two needle beds (4), a carriage (6) that reciprocates on the needle beds (4) and has a stitch cam motor that changes a stitch density value of a stitch cam, a carrier (8, 9) that feeds a yarn to needles of the needle beds, a yarn feeding apparatus (10) that feeds the yarn to the carrier, a sensor (27) that measures a yarn length of the yarn fed from the yarn feeding apparatus (10), and a controller (16) that controls the stitch cam motor based on a signal of the sensor (27) and corrects the stitch density value. The controller (16) corrects the stitch density value for each predetermined length that is shorter than one course in order to correct an error between a consumed yarn length and a target yarn length in a course of the carriage in which the error occurred. Effects: An accumulated error in the stitch loop length is corrected for each course and is not carried over to the next course. Also, when yarns are connected and changed in the course, or the dyeing color of the yarn is changed, the color is changed exactly at a desired position and there is no need for treating the yarn for a margin with tuck stitches or the like.

IPC 8 full level

**D04B 15/66** (2006.01); **D04B 15/36** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP)

**D04B 15/327** (2013.01); **D04B 15/488** (2013.01); **D04B 15/66** (2013.01); **D04B 15/96** (2013.01)

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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 2775020 A1 20140910**; **EP 2775020 B1 20160406**; CN 104032472 A 20140910; CN 104032472 B 20160413; JP 2014169518 A 20140918; JP 6108882 B2 20170405; KR 101569011 B1 20151113; KR 20140109290 A 20140915

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