

Title (en)

Flatbed knitting machine including variable stitch device

Title (de)

Flachbettstrickmaschine mit Vorrichtung für die Erzeugung unterschiedlicher Maschengrößen

Title (fr)

Machine à tricoter rectiligne comprenant un dispositif pour ajuster la densité de maille

Publication

EP 2594672 A1 20130522 (EN)

Application

EP 12007497 A 20121031

Priority

JP 2011251540 A 20111117

Abstract (en)

A flatbed knitting machine includes a variable stitch device (25) that has a simple structure for cost reduction and has a compact size for reduction of a mount space on a carriage. The variable stitch device (25) includes a first groove (37) and a second groove (38) juxtaposed in a cam plate (21) and extending parallel to an inclined face of a bridge cam (23), a control cam (44) performs control to move a first cam (31) having a first stitch-size determining cam face (35) engageable with a second butt (14) of full height along the first groove (37), to move a second cam (32) having a second stitch-size determining cam face (34) engageable with the second butt (14) of half height along the second groove (38), and to switch the first stitch-size determining cam face (35) and the second stitch-size determining cam face (34) between an even state and a stepped state, and a stepping motor (48) that drives the control cam (44).

IPC 8 full level

D04B 15/32 (2006.01)

CPC (source: EP KR)

D04B 7/00 (2013.01 - KR); **D04B 15/327** (2013.01 - EP); **D04B 15/36** (2013.01 - KR)

Citation (applicant)

JP H0416031 B2 19920319

Citation (search report)

- [AD] EP 1536050 A1 20050601 - SHIMA SEIKI MFG [JP]
- [A] EP 0060888 A1 19820929 - SHIMA IDEA CENTER CO LTD [JP]
- [A] US 6240749 B1 20010605 - STOLL THOMAS [DE], et al
- [A] EP 0698679 A1 19960228 - SHIMA SEIKI MFG [JP]
- [A] CH 448358 A 19671215 - DUBIED & CIE SA E [CH]

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 2594672 A1 20130522; **EP 2594672 B1 20150916**; CN 103122552 A 20130529; CN 103122552 B 20141008; JP 2013108184 A 20130606; KR 101356983 B1 20140129; KR 20130054913 A 20130527

DOCDB simple family (application)

EP 12007497 A 20121031; CN 201210458512 A 20121114; JP 2011251540 A 20111117; KR 20120125153 A 20121107