

Title (en)

FLAT KNITTING MACHINE STRUCTURE WITH ADJUSTABLE GAP BETWEEN TWO KNOCK-OVER BITS

Title (de)

FLACHSTRICKMASCHINENSTRUKTUR MIT EINSTELLBAREM SPALT ZWISCHEN ZWEI ABSCHLAGPLATINEN

Title (fr)

STRUCTURE DE TRICOTEUSE RECTILIGNE À INTERVALLE RÉGLABLE ENTRE DEUX BECS DE PLATINE D'ABATTAGE

Publication

EP 3702502 A1 20200902 (EN)

Application

EP 19160218 A 20190301

Priority

EP 19160218 A 20190301

Abstract (en)

A flat knitting machine structure (100) with an adjustable gap between two knock-over bits includes two needle beds (11, 12) and two cam systems (13). Each needle bed (11 or 12) comprises a plurality of needles (15) and a plurality of knock-over bits (16). Each needle (15) are combined with a jack which comprises a butt (151). Each of the knock-over bits (16) comprises a control butt (161). The two needle beds (11, 12) are disposed at interval so that the knock-over bits (16) face each other to define a gap (10). The distance of the gap (10) is equal to a space (101) between two knock-over bits (16) facing each other. Each cam system (13) comprises a needle cam (131) to provide the plurality of butts (151) being placed and guide each needle (15) to make a knitting stroke towards the gap (10), and a knock-over bit cam (132) provides the control butts (161) being placed. The knock-over bit cam (132) is controlled to define a displacement stroke (133) for driving the plurality of knock-over bits (16) to change the size of the gap (10).

IPC 8 full level

D04B 15/10 (2006.01); **D04B 7/00** (2006.01); **D04B 7/04** (2006.01); **D04B 15/06** (2006.01); **D04B 15/36** (2006.01)

CPC (source: EP)

D04B 1/22 (2013.01); **D04B 7/04** (2013.01); **D04B 15/06** (2013.01); **D04B 15/10** (2013.01); **D04B 15/362** (2013.01); **D10B 2403/0221** (2013.01)

Citation (applicant)

- CN 102704180 A 20121003 - UNIV JIANGNAN
- CN 102978823 A 20130320 - FUJIAN FULIAN WARP KNITTING CO LTD
- CN 105220347 A 20160106 - MAYER TEXTILMASCHF

Citation (search report)

- [A] EP 1340847 A1 20030903 - SHIMA SEIKI MFG [JP]
- [A] EP 0533414 A1 19930324 - SHIMA SEIKI MFG [JP]
- [A] EP 1247887 A1 20021009 - 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 3702502 A1 20200902; EP 3702502 B1 20220511

DOCDB simple family (application)

EP 19160218 A 20190301