

Title (en)
FLAT KNITTING MACHINE

Title (de)
FLACHSTRICKMASCHINE

Title (fr)
TRICOTEUSE RECTILIGNE

Publication
EP 3165651 A1 20170510 (EN)

Application
EP 16197044 A 20161103

Priority
JP 2015218933 A 20151106

Abstract (en)
There is provided a flat knitting machine in which the knitting yarn is less likely to be nipped between a fixed sinker and a movable sinker. The flat knitting machine includes a fixed sinker 4 and a movable sinker 5. Assuming a direction from an inoperative position, where the movable sinker does not make contact with a sinker loop, to an operative position, where the movable sinker makes contact with the sinker loop, in a swinging direction of the movable sinker 5 is an operating direction, the movable sinker 5 includes a projecting portion 5C at a position closer to a swinging center than a knitting yarn receiving portion 5B when seen from the swinging center of the movable sinker 5. The projecting portion 5C is projected out more toward the operating direction than the knitting yarn receiving portion 5B. When a virtual line connecting a holding point of the knitting yarn 8 in the hook 3F when the knitting yarn 8 is pulled in with the hook 3F of the knitting needle 3 and a holding point of the knitting yarn 8 in the fixed sinker 4 is defined, the projecting portion 5C when the movable sinker 5 is arranged at the inoperative position is arranged on an upper side of the needle bed 2 than the virtual line.

IPC 8 full level
D04B 15/06 (2006.01)

CPC (source: CN EP KR)
D04B 7/00 (2013.01 - KR); **D04B 15/06** (2013.01 - CN EP KR); **D04B 15/10** (2013.01 - KR); **D04B 15/24** (2013.01 - KR);
D04B 15/90 (2013.01 - EP)

Citation (applicant)
• JP H0585664 B2 19931208 - SHIMA SEIKI MFG
• JP H0583657 B2 19931129
• JP 2015132026 A 20150723 - SHIMA SEIKI MFG

Citation (search report)
• [XA] JP 2013139644 A 20130718 - SHIMA SEIKI MFG
• [A] EP 0602622 A1 19940622 - SHIMA SEIKI MFG [JP]

Cited by
US11313058B2; CN108385262A; EP3798339A1

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 3165651 A1 20170510; **EP 3165651 B1 20180620**; CN 106835477 A 20170613; CN 106835477 B 20190618; JP 2017089033 A 20170525;
JP 6275101 B2 20180207; KR 101844265 B1 20180402; KR 20170053572 A 20170516

DOCDB simple family (application)
EP 16197044 A 20161103; CN 201610974350 A 20161104; JP 2015218933 A 20151106; KR 20160142748 A 20161031