

Title (en)

Flatbed knitting machine equipped with sinker device

Title (de)

Flachstrickmaschine mit Platinenvorrichtung

Title (fr)

Machine à tricoter rectiligne équipé d'une dispositif de platine

Publication

EP 2894245 A1 20150715 (EN)

Application

EP 15150504 A 20150108

Priority

JP 2014003778 A 20140110

Abstract (en)

[Problem to be solved] To provide a flatbed knitting machine equipped with sinker devices capable of ensuring an appropriate arrangement space without increasing a height even when a movable sinker biased by a spring is arranged with a fixed sinker in a space between knitting needles.

[Solution] A movable sinker 10 and a fixed sinker 12 are arranged between knitting needles. A spring 13 biases the movable sinker 10 and a side surface thereof is supported by a leading end part 11d of a sinker jack 11. The movable sinker 10 is driven by the sinker jack 11 from a lateral side and a lower portion of a thin thickness part 7a provided on needle plate 7 is positioned at a vicinity of a bottom part of a needle groove for accommodating the knitting needle, thereby preventing the need of increasing the height of the sinker device. The sinker jack 11 is also used for pressing the movable sinker 10 from the side surface at the side of the needle groove so as to ensure an appropriate arrangement space.

IPC 8 full level

D04B 15/06 (2006.01); **D04B 15/10** (2006.01); **D04B 15/70** (2006.01)

CPC (source: EP KR)

D04B 1/00 (2013.01 - KR); **D04B 7/00** (2013.01 - KR); **D04B 15/06** (2013.01 - EP KR); **D04B 15/10** (2013.01 - EP); **D04B 15/70** (2013.01 - EP); **D04B 15/90** (2013.01 - EP)

Citation (applicant)

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- WO 2005012613 A1 20050210 - SHIMA SEIKI MFG [JP], et al
- JP 3542348 B2 20040714
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Citation (search report)

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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 2894245 A1 20150715; **EP 2894245 B1 20161214**; CN 104775226 A 20150715; CN 104775226 B 20170718; JP 2015132026 A 20150723; JP 6223194 B2 20171101; KR 101648378 B1 20160816; KR 20150083778 A 20150720

DOCDB simple family (application)

EP 15150504 A 20150108; CN 201510012872 A 20150109; JP 2014003778 A 20140110; KR 20140189171 A 20141225