

Title (en)

NEEDLE SELECTION DEVICE OF FLAT KNITTING MACHINE, AND SELECTOR

Title (de)

NADELAUSWAHLVORRICHTUNG FÜR EINE FLACHSTRICKMASCHINE UND SELEKTOR DAFÜR

Title (fr)

DISPOSITIF DE SÉLECTION D'AIGUILLE DANS UNE MACHINE À TRICOTER RECTILIGNE, ET SÉLECTEUR

Publication

EP 2474654 A4 20130213 (EN)

Application

EP 10813494 A 20100901

Priority

- JP 2009202112 A 20090901
- JP 2010005366 W 20100901

Abstract (en)

[origin: EP2474654A1] [Problem to be solved] To provide a needle selection device of a flatbed knitting machine which can select a needle stably even if a space between a carriage and a needle bed varies when the carriage travels, and a selector. [Solution] A needle selection device 20 of a flatbed knitting machine 17 includes a needle selection mechanism 20a mounted on a carriage 11 and a selector 19 put in a needle groove 5 together with a knitting needle 6. A head end of an elastic leg piece 19c of the selector 19 bends to the carriage 11 side and the elastic leg piece 19c contacts against a cam surface of a spring support cam 27. When a pole contact 19d which is attracted to an attracting surface 24a of a needle selection actuator 24 provided on the carriage 11 side is released by cancellation of the attraction, an elastic force based on the elastic leg piece 19c is required to be larger than an attracting force. The selector 19 is supported depending on the carriage 11 only without depending on the needle bed 2 side, so that, even if a space between the carriage 11 and the needle bed 2 varies when the carriage 11 travels, it is possible that a stable elastic force is generated to perform a stable needle selection.

IPC 8 full level

D04B 15/70 (2006.01); **D04B 15/78** (2006.01); **D04B 15/82** (2006.01)

CPC (source: EP)

D04B 15/70 (2013.01); **D04B 15/78** (2013.01)

Citation (search report)

- [IA] EP 0748887 A1 19961218 - SHIMA SEIKI MFG [JP]
- [IA] JP H06220752 A 19940809 - SHIMA SEIKI MFG
- [IA] US 5560228 A 19961001 - LUKIC BORIS [HR]
- [AD] JP 3459514 B2 20031020
- See references of WO 2011027543A1

Cited by

CN105887301A

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