

Title (en)

Needle selecting system of flat knitting machine, selector, and flat knitting machine

Title (de)

Nadelauswahlssystem einer Flachstrickmaschine, Selektor und Flachstrickmaschine

Title (fr)

Système de sélection d'aiguille de machine à tricoter plate, sélecteur et machine à tricoter plate

Publication

**EP 2570539 A1 20130320 (EN)**

Application

**EP 12006475 A 20120914**

Priority

JP 2011203289 A 20110916

Abstract (en)

To provide a needle selecting system of a flat knitting machine capable of stably selecting a needle compared to prior art. A needle selecting system 1 including a selector 4 configuring one part of a knitting needle 200, and a needle selecting device 2 arranged in a carriage 300 that reciprocates in a longitudinal direction of a needle bed 100 is provided. The selector 4 includes an armature 43 and an elastic leg piece 44 extending towards a tail end side opposite to a needle bed gap side. The needle selecting device 2 includes a needle selecting actuator 10 and an interrupt cam 20. The interrupt cam 20 is arranged bulging out at a position facing the needle selecting actuator 10, and cuts in between the armature 43 and the elastic leg piece 44 of the selector 4 to spread the spacing between the armature 43 and the elastic leg piece 44 when the carriage 300 travels on the needle bed 100. As a result, the selector 4 is supported by the carriage 300 in which the interrupt cam 20 is arranged.

IPC 8 full level

**D04B 15/70** (2006.01)

CPC (source: EP KR)

**D04B 15/36** (2013.01 - EP); **D04B 15/70** (2013.01 - EP); **D04B 15/82** (2013.01 - KR); **D04B 15/90** (2013.01 - KR)

Citation (applicant)

JP 3459514 B2 20031020

Citation (search report)

- [XA] EP 2100991 A1 20090916 - SHIMA SEIKI MFG [JP]
- [XA] EP 1541734 A1 20050615 - SHIMA SEIKI MFG [JP]
- [XA] EP 1275762 A1 20030115 - SHIMA SEIKI MFG [JP]

Cited by

CN104862873A

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 2570539 A1 20130320**; **EP 2570539 B1 20160907**; CN 102995272 A 20130327; CN 102995272 B 20140813; JP 2013064207 A 20130411; JP 5844586 B2 20160120; KR 101387965 B1 20140422; KR 20130030313 A 20130326

DOCDB simple family (application)

**EP 12006475 A 20120914**; CN 201210314422 A 20120830; JP 2011203289 A 20110916; KR 20120092125 A 20120823