

Title (en)

Compound needle for flatbed knitting machine

Title (de)

Schiebernadel für Flachstrickmaschinen

Title (fr)

Aiguille de type compound pour machine à tricoter rectiligne

Publication

**EP 2458051 A3 20140521 (EN)**

Application

**EP 11009236 A 20111122**

Priority

JP 2010260512 A 20101122

Abstract (en)

[origin: EP2458051A2] [Problem to be solved] There is provided a compound needle for a flatbed knitting machine with no need to strongly fix a joining part as a slider in post-process operations. [Solution] An upper joining part (11c) of a base body (11) shown in (a) is joined to lower joining parts (12c, 13c) of the blades (12, 13) to form a joining part (15) shown in (b). Concave parts (12d, 13d) are respectively provided with narrowing parts (12e, 13e) in which the width between side walls is narrower than the width of an opening, and a convex part (11e) is provided with a widening part (11g) having the wider width than that of the narrowing parts (12e, 13e). The concave parts (12d, 13d) are elastically deformed midway through the insertion in the vertical direction, and the widening part (11g) is allowed to pass through the narrowing parts (12e, 13e). Thus, it is possible to join the two blades (12, 13) to the base body (11) as similar to the snap fitting of synthetic resin products. A groove (11d) provided at the tip end of the convex part (11e) sandwiches the blades (12, 13) below the concave parts (12e, 13e), so that it is possible to prevent the blades (12, 13) from coming off in the plate thickness direction.

IPC 8 full level

**D04B 35/06** (2006.01)

CPC (source: EP)

**D04B 35/06** (2013.01)

Citation (search report)

- [A] JP 2001032154 A 20010206 - SHIMA SEIKI MFG
- [A] US 2003121292 A1 20030703 - PLATH ERNST-DIETER [DE]
- [AD] JP H11152664 A 19990608 - SHIMA SEIKI MFG

Designated contracting state (EPC)

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Designated extension state (EPC)

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