

Title (en)
KNITTING NEEDLE

Title (de)
STRICKNADEL

Title (fr)
AIGUILLE À TRICOTER

Publication
EP 4083286 A4 20230607 (EN)

Application
EP 20913491 A 20201230

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- CN 202010068906 A 20200121
- CN 202010794757 A 20200810
- CN 202011314294 A 20201120
- CN 2020141550 W 20201230

Abstract (en)
[origin: EP4083286A1] A knitting needle (1) includes a hook (11), a latch (12), a shaft (13) provided with a first transfer portion (15), and a flat spring (14) provided with a second transfer portion (143) and having a front portion bent outward to form a protrusion (141) and a back portion connected to a bottom surface (1331) of a recess (133) to form a connecting end. A deformation surface (142) and the protrusion (141) are not exposed outside the recess (133), or the deformation surface (142) and the protrusion (141) have a portion exposed outside the recess (133), where the portion exposed outside the recess is elastically pressed into the recess (133) by a needle groove or is located in a depression at a corresponding side of the needle groove. The deformation surface (142) is elastically deformed to drive the protrusion (141) to expand outward, such that a loop hung on the first transfer portion (15) and the second transfer portion (143) is stretched. In addition, the deformation surface (142) and the protrusion (141) sink into the recess (133) in a natural state or when pressed by the needle groove, which reduces the overall width of the knitting needle (1). Thus, more knitting needles (1) can be provided on a needle plate in a transverse direction to adapt to high-density knitting of a flatbed knitting machine. Furthermore, the portion of the deformation surface (142) and the protrusion (141) exposed outside the recess (133) is located in the depression at the corresponding side of the needle groove to meet different knitting needs.

IPC 8 full level
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CPC (source: CN EP KR US)
D04B 7/04 (2013.01 - CN KR US); **D04B 35/04** (2013.01 - CN EP KR US)

Citation (search report)

- [XA] US 2111476 A 19380315 - HARRY MCADAMS
- [XA] EP 1627943 A1 20060222 - STOLL H GMBH & CO KG [DE]
- [A] WO 2009095359 A1 20090806 - SANTONI & C SPA [IT], et al
- See also references of WO 2021143532A1

Designated contracting state (EPC)
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