

Title (en)

Latch needle for stitch-forming textile machines.

Title (de)

Zungennadel für maschenbildende Textilmaschinen.

Title (fr)

Aiguille à clapet pour des machines textiles formant des mailles.

Publication

EP 0291687 A1 19881123 (DE)

Application

EP 88105786 A 19880412

Priority

DE 8706529 U 19870507

Abstract (en)

[origin: US4817398A] A latch needle for loop forming textile machines includes a steel needle shank and a nonmetallic latch. The steel needle shank has upper and lower edges, a sawslot defined in the needle shank and a needle hook at one end of the needle shank. The needle also includes an axle which extends transversely across the sawslot and contacts the needle shank. The latch is pivotally mounted on the axle and is provided with a noucat at one end. The latch is pivotal between an open and a closed position. When the latch is in the closed position, the noucat rests on the needle hook and when the latch is in the open position, the back surface of the latch contacts part of the needle shank. The nonmetallic material which the latch is composed of is a fiber reinforced thermoplastic homopolymer or copolymer plastic.

Abstract (de)

Eine Zungennadel für maschenbildende Textilmaschinen weist einen Nadelschaft (1) aus Stahl auf, der einen angeformten Nadelhaken (2) trägt und mit einem Zungenschlitz (3) versehen ist. In dem Zungenschlitz ist eine aus einem faserverstärkten thermoplastischen homo- oder kopolymeren Kunststoff bestehende Nadelzunge (5) um eine querverlaufende Zungenachse schwenkbar gelagert.

IPC 1-7

D04B 35/04

IPC 8 full level

D04B 35/04 (2006.01)

CPC (source: EP US)

D04B 35/04 (2013.01 - EP US)

Citation (search report)

- [AD] DE 1046819 B 19581218 - LUCHSINGER S HANDELSGESELLSCHA
- [A] GB 229204 A 19250219 - CHRISTIAN SPEIDEL
- [A] GB 191206800 A 19120801 - KORNDORFER AUGUSTUS [US], et al
- [A] JOURNAL OF THE TEXTILE INSTITUTE, Band 69, Nr. 10, Oktober 1978, Seiten 301-307, The Textile Institute and Contributors; G.R. WRAY et al.: "Cam-to-needle impact forces in weft-knitting. Part IX: Needle-to-latch impact"

Cited by

CN1111101288A; EP2224048A1; US7007516B2; US7913519B2

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

DE 8706529 U1 19870619; CA 1315561 C 19930406; DE 3863125 D1 19910711; EP 0291687 A1 19881123; EP 0291687 B1 19910605; ES 2022511 B3 19911201; JP H01139848 A 19890601; US 4817398 A 19890404

DOCDB simple family (application)

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