

Title (en)

Latch needle for machines for making knitwear

Title (de)

Zungennadel für Maschinen zur Herstellung von Maschenware

Title (fr)

Aiguille à clapet pour des machines de fabrication de tricot

Publication

EP 0735174 A3 19970305 (DE)

Application

EP 96103544 A 19960307

Priority

DE 19512375 A 19950401

Abstract (en)

[origin: JPH08269852A] PROBLEM TO BE SOLVED: To provide an improved latch needle having a hook, a stem and a latch gyratable in a latch slit, wherein the latch slit has a through-opening penetrated to the back of the stem in a region under the latch axis and restricted at both sides by elastically deformable side stem walls and said side stem wall has a supporting face corresponding to the contacting face of the back of the latch in the range of the upper edge of the latch slit, having decreased requirements on the constitution of the supporting face for the back of the latch and effective for improving the cushioning action on the collision of the latch to the supporting face of the stem. SOLUTION: The latch slit has a 2nd slit having a width larger than that of a 1st slit, having a through-opening and placed subsequent to the narrow 1st slit viewed from the hook side. A supporting face is formed within the range of the 2nd slit. The 2nd slit is closed at the back of the stem under the supporting face at a height lower than 1/2 of the stem height and a 3rd slit having a width narrower than that of the 2nd slit is placed subsequent to the 2nd slit.

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)

- [A] GB 2128209 A 19840426 - FUKUHARA NEEDLE CO LTD
- [A] US 4099391 A 19780711 - FUKUHARA MASAO
- [DA] DE 2714607 A1 19781005 - GROZ & SOEHNE THEODOR
- [DA] DE 4324232 A1 19950126 - SIPRA PATENT BETEILIGUNG [DE]

Cited by

KR101941122B1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19512375 C1 19960620; CA 2172770 A1 19961002; CA 2172770 C 19990413; DE 59607062 D1 20010719; EP 0735174 A2 19961002; EP 0735174 A3 19970305; EP 0735174 B1 20010613; JP 2929523 B2 19990803; JP H08269852 A 19961015; US 5609045 A 19970311

DOCDB simple family (application)

DE 19512375 A 19950401; CA 2172770 A 19960327; DE 59607062 T 19960307; EP 96103544 A 19960307; JP 7923396 A 19960401; US 62370796 A 19960329