

Title (en)
Needle unit for knitting machine

Title (de)
Nadeleinheit für Strickmaschine

Title (fr)
Ensemble d'aiguille pour métier à tricoter

Publication
EP 0761858 B1 20000628 (EN)

Application
EP 96113498 A 19960822

Priority

- JP 22994695 A 19950907
- JP 18495696 A 19960715

Abstract (en)
[origin: EP0761858A1] A needle unit which is changeable in movement and which is free of friction loss while the needle body is moving up and down. It has a select jack (1), a push-up jack (2) and a needle body (3) arranged in a needle groove in this order from bottom to top. The needle body (3) has at its bottom a bifurcated portion made up of a support piece (9) and a resilient piece (10). The push-up jack (2) has its top end slidably inserted between the support piece (9) and the resilient piece (10), with the resilient piece (10) biased toward the push-up jack (2). The resilient piece is provided in its inner surface with two recesses (11,12) having different depths and on its outer surface with a butt (14). The push-up jack has a protrusion (8) on one side thereof adapted to engage in the recesses when the push-up jack slides up and down. <IMAGE>

IPC 1-7
D04B 15/68

IPC 8 full level
D04B 15/10 (2006.01); **D04B 15/68** (2006.01)

CPC (source: EP KR)
D04B 11/00 (2013.01 - KR); **D04B 15/68** (2013.01 - EP)

Citation (examination)
DE 3523989 C1 19870102 - SCHIEBER UNIVERSAL MASCHF

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0761858 A1 19970312; EP 0761858 B1 20000628; CN 1062042 C 20010214; CN 1153836 A 19970709; DE 69609024 D1 20000803; DE 69609024 T2 20010308; ES 2149410 T3 20001101; JP 2747280 B2 19980506; JP H09132842 A 19970520; KR 100244077 B1 20000401; KR 970015823 A 19970428; TW 312245 U 19970801

DOCDB simple family (application)
EP 96113498 A 19960822; CN 96112905 A 19960906; DE 69609024 T 19960822; ES 96113498 T 19960822; JP 18495696 A 19960715; KR 19960038567 A 19960906; TW 86203124 U 19960812