

Title (en)  
CLAMPING DEVICE FOR NEEDLES

Publication  
**EP 0244656 B1 19891102 (DE)**

Application  
**EP 87105158 A 19850514**

Priority  
DE 3420693 A 19840602

Abstract (en)  
[origin: ES287144U] A clamping device for attaching crochet needles to the needle bar of a galloon crochet machine or Raschel loom. The clamping device consists of two body pieces, a lower piece and a clamping lid, which are fastened together by means of clamps. In one embodiment the body piece holds the needle shafts, a spacer inserted into each interval between needles, and a support piece between the shafts of a needle and a receptacle in the lower piece. This results in the formation of needle beds. In the other embodiment very shallow grooves are milled opposite one another in both body pieces. These are only a fraction of half the height of the needle shafts, leaving the major part of the needle shaft's height free after clamping.

IPC 1-7  
**D04B 27/06**

IPC 8 full level  
**D04B 27/06** (2006.01)

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AU 573346 B2 19880602; BR 8502628 A 19860204; CA 1253708 A 19890509; CS 264330 B2 19890712; DD 239429 A5 19860924;  
DE 3420693 A1 19851205; DE 3562394 D1 19880601; DE 3574033 D1 19891207; DK 158840 B 19900723; DK 158840 C 19901224;  
DK 241985 A 19851203; DK 241985 D0 19850530; EP 0165461 A1 19851227; EP 0165461 B1 19880427; ES 287144 U 19851216;  
ES 287144 Y 19860716; FI 80483 B 19900228; FI 80483 C 19900611; FI 852063 A0 19850523; FI 852063 L 19851203; GR 851329 B 19851125;  
HU 207877 B 19930628; HU T39213 A 19860828; IE 56559 B1 19910911; IE 851356 L 19851202; IL 75385 A0 19851031; IL 75385 A 19880731;  
JP H048535 B2 19920217; JP H06207354 A 19940726; JP H0726299 B2 19950322; JP S60259660 A 19851221; MX 164361 B 19920805;  
NO 160089 B 19881128; NO 160089 C 19890308; NO 852194 L 19851203; PL 144327 B1 19880531; PL 253735 A1 19860603;  
PT 80535 A 19850601; PT 80535 B 19870529; TR 22415 A 19870430; US 4571961 A 19860225; ZA 854128 B 19860129;  
ZA 854129 B 19860129

DOCDB simple family (application)

**EP 87105158 A 19850514;** AT 85105904 T 19850514; AT 87105158 T 19850514; AU 4312085 A 19850529; BR 8502628 A 19850531;  
CA 482941 A 19850531; CS 392685 A 19850531; DD 27681185 A 19850530; DE 3420693 A 19840602; DE 3562394 T 19850514;  
DE 3574033 T 19850514; DK 241985 A 19850530; EP 85105904 A 19850514; ES 287144 U 19850530; FI 852063 A 19850523;  
GR 850101329 A 19850530; HU 212485 A 19850531; IE 135685 A 19850531; IL 7538585 A 19850602; JP 11899585 A 19850603;  
JP 23889191 A 19910827; MX 20546885 A 19850530; NO 852194 A 19850531; PL 25373585 A 19850531; PT 8053585 A 19850528;  
TR 2628285 A 19850528; US 73745785 A 19850524; ZA 854128 A 19850530; ZA 854129 A 19850530