

Title (en)
Needle more particularly for embroidering machines

Title (de)
Nadel, insbesondere für Grossstickmaschinen

Title (fr)
Aiguille en particulier pour machines à broder

Publication
EP 0725176 B1 19990526 (DE)

Application
EP 95119357 A 19951208

Priority
DE 19503048 A 19950201

Abstract (en)
[origin: DE19503048C1] Shaft (2) attached to a butt end (1) ends in a point (3) and has at least one groove in it, leading to an eye (4). Near the butt end, the shaft has a circumferential neck (6) which acts as a predetermined breaking point. A tapered section (7) abuts this point with a transition to a cylindrical section (8).

IPC 1-7
D05C 11/02; **D05B 85/00**

IPC 8 full level
B21G 1/04 (2006.01); **D05B 85/00** (2006.01); **D05C 11/02** (2006.01)

CPC (source: EP US)
B21G 1/04 (2013.01 - EP US); **D05B 85/00** (2013.01 - EP US); **D05C 11/02** (2013.01 - EP US)

Designated contracting state (EPC)
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DOCDB simple family (publication)
DE 19503048 C1 19960314; **DE 19503048 C2 19990923**; CA 2168502 A1 19960802; CA 2168502 C 20010227; DE 59506030 D1 19990701; EP 0725176 A2 19960807; EP 0725176 A3 19960821; EP 0725176 B1 19990526; ES 2131748 T3 19990801; JP 3088651 B2 20000918; JP H08232162 A 19960910; US 5666896 A 19970916

DOCDB simple family (application)
DE 19503048 A 19950201; CA 2168502 A 19960131; DE 59506030 T 19951208; EP 95119357 A 19951208; ES 95119357 T 19951208; JP 1282896 A 19960129; US 59263096 A 19960126