

Title (en)

Apparatus for changing the bobbin in an embroidering or sewing machine

Title (de)

Vorrichtung zum Wechseln der Unterfadenspule einer Stick- oder Nähmaschine

Title (fr)

Dispositif pour remplacer la canette dans une machine à broder ou à coudre

Publication

EP 0841425 A3 19980909 (DE)

Application

EP 97117475 A 19971009

Priority

DE 19645979 A 19961107

Abstract (en)

[origin: EP0841425A2] The mechanism to exchange the lower thread bobbin in a rotating looper, at an industrial sewing or embroidery machine, has a slide (4) with at least two coupling shafts (6,7) parallel to the looper drive shaft (5), each with a looper (8,9) at the ends away from the looper shaft. The ends towards the looper drive shaft have couplings (21-23) so that the slide, when the looper shaft is at rest, is at right angles to it and parallel to the plane of the needle plate, and can be reversed by the coupling shaft gap.

IPC 1-7

D05B 59/04

IPC 8 full level

D05B 59/04 (2006.01)

CPC (source: EP KR US)

D05B 57/14 (2013.01 - KR); **D05B 57/38** (2013.01 - KR); **D05B 59/04** (2013.01 - EP KR US)

Citation (search report)

- [A] DE 1485114 A1 19690710 - BERNERUS DAVID NATANAEL, et al
- [E] DE 19653296 C1 19980402 - ZSK STICKMASCH GMBH [DE]
- [A] US 4606285 A 19860819 - TAJIMA IKUO [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 277 (C - 0954) 22 June 1992 (1992-06-22)

Cited by

CN110468529A; BE1027290B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0841425 A2 19980513; EP 0841425 A3 19980909; EP 0841425 B1 20020821; CN 1077623 C 20020109; CN 1182146 A 19980520; DE 19645979 C1 19980723; DE 59708008 D1 20020926; ES 2180873 T3 20030216; KR 100343075 B1 20020822; KR 19980042194 A 19980817; PT 841425 E 20021129; US 5904110 A 19990518

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EP 97117475 A 19971009; CN 97122424 A 19971106; DE 19645979 A 19961107; DE 59708008 T 19971009; ES 97117475 T 19971009; KR 19970058689 A 19971107; PT 97117475 T 19971009; US 96456397 A 19971105