

Title (en)

Multi-needle knotted-stitch quilting machine wherein the shuttles follow an arc-shaped path

Title (de)

Mehrnadelsteppdeckennähmaschine mit verknotetem Stich und Schiffchen, die einen bogenförmigen Pfad folgen

Title (fr)

Machine à piquer à aiguilles multiples et point noué dans laquelle les navettes suivent une trajectoire courbe

Publication

**EP 0715012 A3 19960814 (EN)**

Application

**EP 95830491 A 19951124**

Priority

IT MI942411 A 19941128

Abstract (en)

[origin: EP0715012A2] There is disclosed a multi-needle knotted-stitch quilting machine wherein the shuttles advantageously follow an arc-shaped path instead of the rectilinear reciprocating motion according to the prior art. This path normally extends for an operating angle  $\alpha$  while a manual or automatic control is provided, after disengaging said oscillating mechanism, for performing an additional rotation  $\beta$  of the shuttles so as to make them accessible by having them come out from the fixed needle plate, also curved. The side guides of the shuttles, also arched, preferably have a rear extension to hold the shuttles when they have been rotated beyond the normal angle of oscillation  $\alpha$ . There are also provided kinematic counterweight, pneumatic, hydraulic or spring devices for balancing the assembly and dampening the vibrations. <IMAGE>

IPC 1-7

**D05B 11/00**; **D05C 11/18**; **D05C 3/02**

IPC 8 full level

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CPC (source: EP)

**D05C 3/02** (2013.01); **D05C 11/18** (2013.01); **D05B 11/00** (2013.01)

Citation (search report)

- [A] FR 532313 A 19220201 - KAPPEL MASCHF
- [A] DE 280245 C
- [A] DE 286538 C
- [A] DE 279662 C
- [A] US 2895438 A 19590721 - NATHAN SHOTSKY
- [A] US 3695196 A 19721003 - CODOS WILLIAM V

Cited by

EP2330242A1; CH702330A1; CN102086567A; US7735439B1

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