

Title (en)
CNC-controlled buttonhole sewing machine

Title (de)
CNC-gesteuerte Knopfloch-Nähmaschine

Title (fr)
Machine à coudre les boutons à commande numérique

Publication
EP 1321555 B1 20060329 (DE)

Application
EP 02025366 A 20021114

Priority
• DE 10163229 A 20011221
• DE 10216808 A 20020416

Abstract (en)
[origin: EP1321555A2] The traversing table (7) has split support plates (15a, 15b) and the fabric is held on both sides of the buttonhole between plates (19a, 19b) and hinged clamps (17a, 17b). One of the clamps (17b) can be moved by a small amount to spread the buttonhole. The drive is through a stepping motor and eccentric under the control of the central programming unit. <??>The clamp (17b) is displaced at right angles to the buttonhole by only half the required spreading distance while the other clamp (17a) is moved a similar amount in the opposite direction by movement of the traversing table (7). Alternatively both clamps can have a displacement drive. The clamping mechanisms are driven by pneumatic cylinders attached to the support plates (15a, 15b).

IPC 8 full level
D05B 3/08 (2006.01); **D05B 3/06** (2006.01); **D05B 19/12** (2006.01); **D05B 29/00** (2006.01)

CPC (source: EP US)
D05B 3/06 (2013.01 - EP US); **D05B 3/08** (2013.01 - EP US); **D05B 29/00** (2013.01 - EP US)

Cited by
EP2161362A1; EP1354993A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

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EP 1321555 A2 20030625; EP 1321555 A3 20050209; EP 1321555 B1 20060329; AT E321907 T1 20060415; CN 100344817 C 20071024; CN 1427108 A 20030702; DE 50206214 D1 20060518; JP 2003190681 A 20030708; US 2003131770 A1 20030717; US 6722299 B2 20040420

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