

Title (en)
VERTICAL STITCHING MACHINE AND METHOD

Title (de)
SENKRECHTE STEPPMASCHINE UND VERFAHREN

Title (fr)
MACHINE A PIQUER VERTICALE ET SON PROCEDE

Publication
EP 1109960 A4 20011219 (EN)

Application
EP 98920973 A 19980508

Priority
US 9809088 W 19980508

Abstract (en)
[origin: CA2331506A1] A stitching machine (10) and method orients cooperating needle (54) and hook (56) components in spaced horizontal alignment, suspends and tensions flexible sheets (57) to be stitched in a generally vertical orientation between the components for stitching interior seams through the flexible sheets. Horizontal and vertical slides (22) support the cooperating sewing machine components along a horizontal and a vertical axis parallel to the sheets. Controlled drives shift the components in unison along these axes for forming sewn patterns on the sheets. A conveyor (68) is provided with a substantially vertical run, of a height in excess of that of the sheets, to pass the sheets to be stitched between the sewing components and hold the sheets in the vertical orientation.
[origin: CA2331506A1] A stitching machine (10) and method orients cooperating needle (54) and hook (56) components in spaced horizontal alignment, suspends and tensions flexible sheets (57) to be stitched in a generally vertical orientation between the components for stitching interior seams through the flexible sheets. Horizontal and vertical slides (22) support the cooperating sewing machine components along a horizontal and a vertical axis parallel to the sheets. Controlled drives shift the components in unison along these axes for forming sewn patterns on the sheets. A conveyor (68) is provided with a substantially vertical run, of a height in excess of that of the sheets, to pass the sheets to be stitched between the sewing components and hold the sheets in the vertical orientation.

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IPC 8 full level
D05B 11/00 (2006.01); **D05B 33/00** (2006.01); **D05B 39/00** (2006.01); **D05B 73/00** (2006.01)

Citation (search report)
• [A] EP 0148127 A2 19850710 - KLEGER AG PERFEKTA MASCHBAU [CH]
• [A] US 5410974 A 19950502 - HENZ JUERG [CH], et al
• [A] US 2649065 A 19530818 - LOUIS CASPER
• [A] EP 0393474 A1 19901024 - RESTA COMMERCIALE [IT]
• See references of WO 9958751A1

Designated contracting state (EPC)
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AU 7368598 A 19991129; CA 2331506 A1 19991118; EP 1109960 A1 20010627; EP 1109960 A4 20011219; JP 2002514487 A 20020521

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