

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.

IPC 1-7  
**D05B 11/00**

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)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
AU 7368598 A 19991129; CA 2331506 A1 19991118; EP 1109960 A1 20010627; EP 1109960 A4 20011219; JP 2002514487 A 20020521

DOCDB simple family (application)  
AU 7368598 A 19980508; CA 2331506 A 19980508; EP 98920973 A 19980508; JP 2000548537 A 19980508