

Title (en)  
Embroidery/lace machine

Title (de)  
Stickmaschine

Title (fr)  
Machine à broder

Publication  
**EP 0906982 A2 19990407 (EN)**

Application  
**EP 98308100 A 19981005**

Priority  
JP 27142597 A 19971003

Abstract (en)  
In the present invention, a shuttle type embroidery/lace machine includes a frontal thread storage means, a driven type-thread feeding means for feeding the frontal thread from the frontal thread storage means, a movable thread guide for advancing and retreating the frontal thread, a needle carrier for supporting the needles, a cloth frame, a shuttle, and a control unit for controlling said thread feeding means, said movable thread guide, said needle carrier, said cloth frame and said shuttle, characterized in that, said control unit controls said drive type thread feeding means so as to feed a portion of an amount of the frontal thread actually necessary for the embroidering, and said shuttle type embroidery/lace machine further includes means for allowing the remainder of the amount of the frontal thread actually necessary for the embroidering to be fed by pulling the remainder of the amount of the frontal thread out of said frontal thread storage means due to a tension applied to the frontal thread produced by an insufficient amount of the frontal thread actually necessary for embroidering, stitches being formed by pulling both said frontal thread and a dorsal thread of said shuttle. <IMAGE>

IPC 1-7  
**D05C 11/08**

IPC 8 full level  
**D05B 45/00** (2006.01); **D05C 11/08** (2006.01)

CPC (source: EP)  
**D05C 11/08** (2013.01)

Citation (third parties)  
Third party :

- EP 0666351 B1 19970507 - SAURER STICKSYSTEME AG [CH]
- GB 177317 A 19220330 - LIONEL STEPHEN DISNEY
- CH 115089 A 19260601 - HERTENSTEIN ALFRED [CH]
- DE 692218 C 19400614 - ROBERT REINER DR
- EP 0795638 A1 19970917 - LAESSER FRANZ AG [CH]

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

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