

Title (en)
SEWING MACHINE WITH TRANSDUCER AND CONTROL DEVICE

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Application
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Abstract (en)
[origin: WO9005804A1] A known sewing machine has a transducer and an electronic evaluation system. The latter checks the thread tension determined by the transducer by comparing it with a threshold value dependent on the preceding stitch. The evaluation of the stitch tension can therefore only take place after the formation of a stitch by a normal variation in the tension after the sewing machine is brought to a halt. When the threshold value is exceeded, a stitch defect is displayed. The invention, on the other hand, proposes a control device for a sewing machine which makes it possible to display a plurality of different stitch defects as well as problems associated with the needle thread and gripper thread, starting with the first stitch formed by the machine with normal variation of tension. The control device (40) of the sewing machine has a comparator (13; 58) which compares tension peaks (U1, U2,2) of the thread tension (UF) with a predetermined limiting tension (UG1, UG2; UG), and by means of which a switching device (32; 62) arranged downstream and connected to a cut-off device (38) of the drive motor (39) of the machine, as well as a plurality of display elements (33, 35), can be activated, when a tension peak (U1, U2,2) falls below the corresponding limiting tension (UG1, UG2; UG), in function of the limiting tension (UG1, UG2) or of the phase of stitch formation. The switching device (32; 62) thus brings the machine to a halt and switches on the display element (33, 35) corresponding to the defect function.

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