

Title (en)
CONTROL DEVICE FOR THE DOUBLE THREADS IN WARP TYING MACHINES

Publication
EP 0206196 B1 19910821 (DE)

Application
EP 86108183 A 19860616

Priority
CH 271685 A 19850626

Abstract (en)
[origin: US4805276A] A tying machine includes a tying device, grippers for two groups of warp threads (Ka, Kn) which are to be tied together and a device for separating the outermost warp thread of each group and moving it out of the plane of the warp. In the region between the separating device and a gripper, the warp threads are guided over a thread guide where the outermost warp thread is deflected and moved out of the plane of the warp. A measuring device for measuring the force exerted by a deflected warp thread on the point of deflection or on the separating device is arranged in the region of deflection, and the signal of this measuring device serves as criterion for the presence of a double thread. The measuring device may be a piezoelectric pressure convertor or an elongation measuring strip or a piezo sensor which is sensitive to deflection. Thus, the measuring device is virtually unaffected by dirt or dust. Since the signal produced by a double thread is twice as great as that produced by a single thread, such double threads are reliably recognized.

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EP 0206196 A2 19861230; **EP 0206196 A3 19890405**; **EP 0206196 B1 19910821**; AT E66501 T1 19910915; CH 668277 A5 19881215; DE 3680957 D1 19910926; JP H0718077 B2 19950301; JP S626945 A 19870113; US 4805276 A 19890221

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