

Title (en)
ELECTRONICALLY CONTROLLED THREAD FEED

Title (de)
FADENLIEFERGERÄT MIT ELEKTRONISCHER ANSTEUERUNG

Title (fr)
APPAREIL D'ALIMENTATION DU FIL A COMMANDE ELECTRONIQUE

Publication
EP 0853695 B1 20010725 (DE)

Application
EP 96934424 A 19960917

Priority
• DE 9601751 W 19960917
• DE 19537325 A 19951006

Abstract (en)
[origin: DE19537325C1] There is a thread feed (1) to supply especially hard yarns which is designed especially for knitting machines (2) with thread requirements varying considerably in time. The thread feed (1) has a motor-driven thread wheel (13) which, in the ideal case, feeds directly into the knitting machine (2) or its thread guide (7) without the intervention of thread storage devices. The thread tension is monitored via a sensor (22) which detects the measurement for a regulator (15, 16) controlling the feed through the thread wheel (13). The regulator (15, 16) is also designed so that it can process signals containing information on the future thread requirements. It is thus possible for the regulator (15, 16) act in advance of imminent drastic changes in requirements which, for example, occur periodically in flat knitting machines (2) at the fabric edges (thread guide reversing points) by providing extra thread in advance or stopping the thread feed. It is thus possible to even out peak thread tensions and excessively steep tension drops. The regulator (15, 16) can be designed in such a way that it acts as a state regulator and temporarily as a control. Other measures like disturbance variable compensation, parameter adaptation or the like are possible.

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D04B 15/48

IPC 8 full level
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DE 19537325 C1 19961128; AR 003797 A1 19980909; AU 7278796 A 19970430; BR 9610841 A 19990713; CA 2233990 A1 19970417; CA 2233990 C 20020409; CN 1079856 C 20020227; CN 1202939 A 19981223; CO 4520141 A1 19971015; CZ 102298 A3 19981014; CZ 287733 B6 20010117; DE 59607372 D1 20010830; EA 000754 B1 20000424; EA 199800270 A1 19981029; EP 0853695 A1 19980722; EP 0853695 B1 20010725; ES 2159046 T3 20010916; GR 3036527 T3 20011231; HK 1015834 A1 19991022; IL 123954 A 20030529; IN 187802 B 20020629; JP H11500500 A 19990112; KR 100275240 B1 20001215; KR 19990064040 A 19990726; TR 199800625 T2 19980721; TW 353685 B 19990301; UA 49850 C2 20021015; US 6010052 A 20000104; UY 24343 A1 19961101; WO 9713906 A1 19970417

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