

Title (en)

ELECTRICALLY-HYDRAULICALLY DRIVEN TRAVERSING DEVICE FOR WINDING A YARN ON A SPOOL

Publication

EP 0140835 B1 19870415 (DE)

Application

EP 84810460 A 19840921

Priority

CH 533083 A 19830930

Abstract (en)

[origin: US4544108A] A cylinder (3) has a piston rod (21) with a uniform diameter and is connected to a hydraulic tank (7) by way of a relay valve (4). A first end (27) of a piston rod (21) is directly coupled to a traverse rod (28) carrying a thread guide (29). A second end (31) of piston rod (21) is coupled to an iron core (32) of an inductive position sensor (5), which generates a signal (y) for the actual position of piston rod (21). A shaft (35) for a wound twist-yarn bobbin (37) is equipped with a tachometer generator (38), which generates a signal (v) proportional to the number of revolutions. Output signals (y,v) of position sensor (5) and tachometer generator (38) are applied to an electronic control device (6) which, in accordance with these signals (y,v) and other, digital, adjustable stroke parameters, supplies an analog control signal (s) to relay valve (4). Consequently, all winding functions can be achieved by means of a simple, position-adjusted linear drive and electrical preselection, such as winding angle, edge displacement, stroke shortening and disturbed patterning.

IPC 1-7

B65H 54/38

IPC 8 full level

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CPC (source: EP US)

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CH 509428 A 19710630 - ZINSER TEXTILMASCHINEN GMBH [DE]

Cited by

DE3924946A1; DE10157303A1; EP0421308A1; CN102424304A; DE3810532A1

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