

## Title (en)

DEVICE FOR MONITORING THE POSSIBLE ENTANGLEMENT AROUND A CYLINDER FOR GUIDING A TEXTILE SLIVER

## Publication

**EP 0324172 B1 19910807 (DE)**

## Application

**EP 88121817 A 19881229**

## Priority

CH 7488 A 19880111

## Abstract (en)

[origin: EP0324172A1] A device for monitoring lap formation on a roving-or sliver-guiding pair of rollers of a drawing unit for spinning machines consists in that, when a lap is forming, for example on a pressure roller (7), a piston rod (26) of a piston (25) is displaced upwards (in the viewing direction in this Figure), until a switch element (33) touches a contact edge (38) of a switch sleeve (37). The cylinder housing otherwise separated electrically from the piston (25) and surrounding the switch sleeve is thereby short-circuited relative to the piston (25). Since the two parts are connected separately from one another to a control unit (41), this short-circuit causes the execution of a switching function in the control unit, as a result of which the drawing unit is stopped. <??>According to the invention, the switch sleeve (37) is so guided slidably on a guide rod (36) embedded in the upper part (22) that the frictional resistance is higher than the weight of the switch sleeve (37). <??>The electrical separation between the cylinder housing and piston (25) is obtained in that the sliding bush (27) and the lid-shaped closing part (24) each consist of electrically insulating material. <??>If the pressure cylinder (7) has to be ground back for any reason and therefore reduced in diameter, the switch sleeve (37) is automatically pushed forward by the lid-shaped closing part (34), so that the switch spacing H always remains the same. <IMAGE>

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**D01H 13/14**

## IPC 8 full level

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