

Title (en)

Tube feeder for the workstation of a textile machine producing crosswound bobbins

Title (de)

Hülsenzubringer für eine Arbeitsstelle einer Kreuzspulen herstellenden Textilmaschine

Title (fr)

Dispositif pour amener des noyaux au poste de travail d'une machine textile pour la fabrication de bobines à spires croisées

Publication

**EP 1197463 B1 20050608 (DE)**

Application

**EP 01117637 A 20010724**

Priority

DE 10050693 A 20001013

Abstract (en)

[origin: EP1197463A2] The bobbin sleeve feed unit (12), to transfer a sleeve from a store to the bobbin winding station to wind cross wound bobbins, has a sleeve grip (24) which automatically matches the diameter of the empty bobbin sleeve (14). During the transfer movement, the longitudinal axis (57) of the bobbin sleeve is aligned in the transfer position with the rotary axis of the sleeve holding plate at the bobbin frame, independently of the sleeve shape and diameter. The bobbin sleeve feed mechanism, for a bobbin winder, has a pressure stamp (54) which slides along the empty bobbin sleeve and with a restricted swing movement on swing axes (37,38). The pressure plate (56) has a tilting movement, with a functional link to the paired gripping fingers (35,36). The pressure stamp has a buffer spring within a hollow body, which slides within a holder at the gripper base body (31). The connecting bracket (53) of the hollow body has a swing drive arm (28), which is tripped by the switch rod (23) at the workstation of the bobbin frame. The tilting plate of the pressure stamp is linked to the gripper fingers through strap slides (43), in relation to the sleeve axis. The slides have an elongated hole holder (60) to define the setting movements of sliding connectors (41), in turn linked to the gripping fingers through control rods (39). The movements of the gripping fingers are defined by the slides, the connectors and the control rods. The connectors slide along guide rails (48) at the base body of the sleeve grip unit, and are held in place by holding plates (45) at the setting for the gripping fingers to take an empty bobbin sleeve. The base body of the grip unit is on a sliding mounting at the base frame (20) of the bobbin sleeve feed assembly. The switch rod is at the base frame to give a spatial movement to the base body and also a defined operation of the sleeve grip, with a switch arm operated at the workstation. The spatial movement and/or operation of the bobbin sleeve grip is through an electric drive near the base frame. The bobbin sleeve grip is mounted to a cross beam, over the workstations of the bobbin winder, or it can be a component part of a mobile maintenance unit, which travels along the line of workstations, to serve them when required. The mobile maintenance unit travels on a guide rail, over the workstations, linked to a central control for the bobbin winder.

IPC 1-7

**B65H 67/04**

IPC 8 full level

**B65H 67/06** (2006.01); **B65H 67/04** (2006.01)

CPC (source: EP US)

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