

Title (en)
Pattern beam device

Title (de)
Musterbaumanordnung

Title (fr)
Dispositif ensouple à dessin

Publication
EP 1867769 A1 20071219 (DE)

Application
EP 06012094 A 20060613

Priority
EP 06012094 A 20060613

Abstract (en)

The pattern-rendering warp beam arrangement (1) for a knitting machine, comprises a pattern-rendering warp beam (2), which is rotatably mounted in a frame and on which a pattern-rendering yarn is wound that is led through a yarn drawing mechanism. The pattern-rendering warp beam has a regulatable brake mechanism and a slip drive mechanism. The slip drive mechanism consists of an actuated element (7), which acts with a friction grip upon the pattern-rendering warp beam. The actuated element acts upon the circumference of the cylindrical pattern-rendering warp beam. The pattern-rendering warp beam arrangement (1) for a knitting machine, comprises a pattern-rendering warp beam (2), which is rotatably mounted in a frame and on which a pattern-rendering yarn is wound that is led through a yarn drawing mechanism. The pattern-rendering warp beam has a regulatable brake mechanism and a slip drive mechanism. The slip drive mechanism consists of an actuated element (7), which acts with a friction grip upon the pattern-rendering warp beam. The actuated element acts upon the circumference of the cylindrical pattern-rendering warp beam. The actuated element is designed as a brush belt and causes a complete revolution. The actuated element acts upon several pattern-rendering warp beams. Several pattern-rendering warp beams are laid out at a single plane and the actuated element is led more or less in a rectilinear manner above the pattern-rendering warp beams aligned at the plane. The pattern-rendering warp beams are aligned at several planes. An actuated element is incorporated at every plane and the actuated elements have a common drive mechanism (28). The actuated element drives the pattern-rendering warp beams in several planes. The yarn drawing mechanism has a yarn accumulating/delivery unit for the additional maintenance of yarn tension. The yarn accumulating/delivery unit has switching components for actuating the brake mechanism. The switching components consist of a first sensor that indicates an accumulated state of the yarn accumulating/delivery unit and a second sensor that indicates a depleted condition of the yarn accumulating/delivery unit. The first sensor enables an activation of the brake mechanism and the second sensor disables the activation of the brake mechanism. The sensors are designed as non-contact sensors. The yarn accumulating/delivery unit consists of a weight-loaded and vertically-movable yarn guidance mechanism.

Abstract (de)

Es wird eine Musterbaumanordnung für eine Wirkmaschine angegeben mit mindestens einem Musterbaum (2), der drehbar in einem Gestell gelagert ist und auf den mindestens ein Musterfaden (15) aufgewickelt ist, der durch eine Fadenabzugsanordnung (16) geführt ist. Man möchte die Fadenspannung des Musterfadens auch bei einer schnellaufenden Wirkmaschine in vorgegebenen Grenzen halten können. Hierzu ist vorgesehen, daß der Musterbaum (2) einen Schlupfantrieb (5) aufweist.

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D04B 27/20 (2006.01)

CPC (source: EP)
B65H 59/387 (2013.01); **D04B 27/20** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

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