Title (en)

Pattern beam device

Title (de)

Musterbaumanordnung

Title (fr)

Dispositif ensouple à dessin

Publication

EP 1867769 B1 20090107 (DE)

Application

EP 06012094 A 20060613

Priority

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Abstract (en)

[origin: EP1867769A1] 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 patternrendering 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.

IPC 8 full level

**D04B 27/20** (2006.01)

CPC (source: EP)

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Cited by

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