

Title (en)

Process and device to influence the tension in a pile warp when manufacturing terry fabrics on looms

Title (de)

Verfahren und Vorrichtung zur Beeinflussung der Zugspannung in einer Polkette beim Herstellen von Frottiergewebe auf Webmaschinen

Title (fr)

Procédé et dispositif pour influencer la tension dans une chaîne de poil lors de la fabrication de tissus éponge sur des métiers à tisser

Publication

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Application

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Priority

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Abstract (en)

[origin: DE4310840C1] To control the tension on pile warps, as they are let off for weaving towellings, the tension on the warps is released during each full beating-in action by the reed. After each row of loops has been bonded in, the tension is restored. Also claimed is a mechanism with a tensioning beam (7) carried by spaced swing arms (6) on a common axis. The swing arms (6) are close to a pressure system fitted to a fixed machine frame section (12), with a control to determine the pressure applied by the beam (7) to the pile warps (4). The pressure system is operated by at least a mechanical, pneumatic, hydraulic, hydromechanical or pneumomechanical mechanism. At least one eccentric drive (16) is fitted to the terry looping shaft (15), with a simple or complementary eccentric, to act on a lever (18) linked by a draw rod (14) to the swing arms (6). The draw rod (14) has a linked fitting at the swing arms (6), and a slot linkage (20) at the lever (18) and a stroke limiting unit (14a) at the free end. The draw rod (14) has a height setting at the swing arms (6) and at the lever (18). USE/ADVANTAGE - The system is for weaving towellings, where the pile warps are held under a lower tension than the warps of the ground fabric. The operation relaxes the tension on the pile warps during a full beating-in action of the reed, independently of the loom working speed, to give a uniform pile height in each row of loops.

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