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Properties of torsion rod in “SULZER” projectile Loom

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The torsion rod characteristics of the “SULZER” loom can be adjusted in the zero position by means of the adjusting lever and the adjusting actuator of the torsion rod of the loom. In the sulzer projectile loom, the movement of the intermediate member results in the axial movement of the adjusting lever to change the position of the zero according to the material and characteristics of the rod. The intermediate member transmits a force exerted by the adjusting lever to a fixed sliding surface. However, the described device in some countries has a serious drawback, because the tuning drive acts on the torsion rod adjusting lever so that when the projectile is fired into the sulzer loom, the picking mechanism reacts through the sudden, harmful pressure of the tuning drive. A solid wedge-shaped idler that can be moved by the adjusting motor is placed between the sliding surface of the adjusting lever and a fixed sliding surface. In the Sulzer projectile loom, known torsion rod control enables projectile loom operation with improved energy consumption and reduced wear.

Biography

Dmitry Pirogov, he has designed books published in Germany and Ukraine. Has published over 50 scientific Articles. Editorial board member & Reviewer for more than 20 journals, organizer for more than 32 conferences and workshops all over the world.

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