

Title (en)

Process and device for weft-insertion in linear shed multiphase looms

Title (de)

Verfahren und Vorrichtung zum Eintragen eines Schussfadens in einer Reihenfachwebmaschine

Title (fr)

Procédé et dispositif pour l'insertion de trame dans les métiers à tisser à ouverture des fils en série

Publication

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Application

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Priority

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Abstract (en)

The weft yarn feed to a rolling shed loom carries a weft in a continuous fluid flow to be distributed into the successive sheds. Before the weft is inserted, the flow direction is deflected outside the distribution unit to form the weft into a loop to hold the start of the weft under tension and prepared for insertion into the distributor. The weft loop is formed before the weft is passed through the shed by a clamp and/or a weft deflection. The weft loop floats freely. An Independent claim is included for a weft feed system with a feed jet (11), an insertion jet (13) and weft distributor (3). A jet assembly (12) is in the weft yarn path, between the feed jet and distributor, to form the weft yarn into a loop. A cylindrical rotary valve (16) is connected to the jet assembly (12). An auxiliary jet (15) is in front of the jet assembly (12), to support the formation of the weft loop, and a guide body (14) for the weft (1) is after the feed jet (11). In another form, a clamp and/or a deflector is in front of the insertion jet to form a weft loop, with a guide and deflector in front of the clamp, with a drive for the deflector. The weft clamp is integrated into the insertion jet.

Abstract (de)

Bei dem Verfahren wird ein Schussfaden mittels einer Fluidströmung kontinuierlich zugeführt und in aufeinanderfolgende Webfächer eingetragen. Durch Umkehr der Strömungsrichtung oder Auslenkung des Schussfadens wird eine Fadenschleife ausserhalb der Schussfadenverteilvorrichtung gebildet, wodurch der Schussfaden innerhalb der Schussfadenverteilvorrichtung gestreckt bleibt. Zur Durchführung des Verfahrens wird eine Düsenanordnung (12) vorgesehen, deren Strömungsrichtung umkehrbar ist. <IMAGE>

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Citation (search report)

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