

Title (en)
LOOM WITH A ROTARY SHED FORMING DEVICE

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Application
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Priority
CH 103982 A 19820219

Abstract (en)
[origin: US4484603A] The present invention relates to a serial shed weaving machine with a weaving rotor. Guide channels for weft threads transported by a flowing fluid are mounted on the weaving rotor. The guide channels are formed from a plurality of elongated, tube-like channel elements having a closable weft thread exit gap. The channel elements have complementary end configurations such that they can be moved together to form a closed guide channel. The channel elements are movable back and forth in the weft insertion direction. When the channels are moved in a first direction, the closed guide channel is opened and gaps are formed between the channel elements and each channel element is moved out of its associated part of the warp shed. When the channel elements are moved in a second direction, each channel element is moved back into its associated part of the warp shed and the guide channel is closed. The total excursion of each channel element in each direction is at least as great as the length of the element. Since the motion of the channel elements is exclusively back and forth in the weft insertion direction, the drive for such motion is relatively simple. Further, since the channel elements are each several centimeters long, the number of possible leak locations is sharply reduced over the prior art such that the weft threads may be inserted by suction air pressure.

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