

(No Model.)

W. H. KYNETT.
SHUTTLE FOR CARPET LOOMS.

No. 537,046.

Patented Apr. 9, 1895.

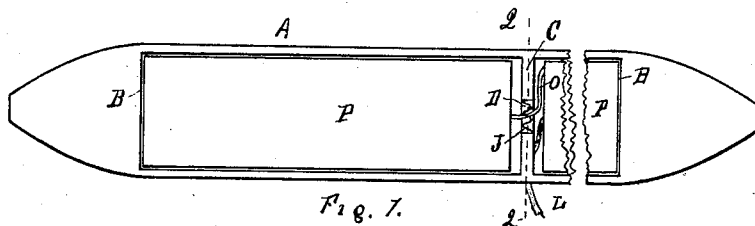


Fig. 1.

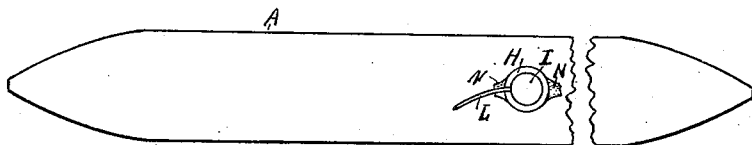


Fig. 2.

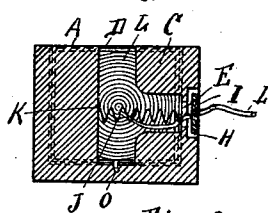


Fig. 3.

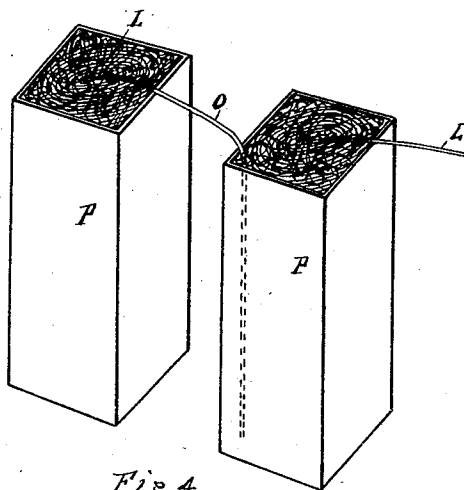


Fig. 4.

WITNESSES:

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WILLIAM H. KYNETT, OF BATTLE CREEK, MICHIGAN.

SHUTTLE FOR CARPET-LOOMS.

SPECIFICATION forming part of Letters Patent No. 537,046, dated April 9, 1895.

Application filed December 6, 1894. Serial No. 531,015. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KYNETT, a citizen of the United States, residing at Battle Creek, in the county of Calhoun, State of Michigan, have invented a new and useful Shuttle for Carpet-Looms, of which the following is a specification.

This invention relates to that class of shuttles in which a can is employed for holding the woof. Heretofore a single can has been employed of a length corresponding to the interior of the shuttle body and the woof fed through an end aperture in the shuttle body, in which construction the shuttle was liable to be drawn laterally out of its straight course through the loom. My object is to overcome this difficulty in a shuttle employing cans, by employing two cans with their open ends contiguous to each other near a central side delivery aperture in the shuttle body, so as to feed first out of one can and then out of the other, all as more particularly set forth and claimed below.

In the drawings forming a part of this specification, Figure 1, is a plan view of a shuttle embodying my invention; Fig. 2, a side elevation of Fig. 1. These two figures show the shuttle body having portions broken out to admit of illustration on a larger scale in the space they occupy. Fig. 3 is an enlarged cross section on line 2 2 in Fig. 1, looking from a point at the left of said figure; and Fig. 4, shows an enlarged perspective view of the two cans filled with woof.

Referring to the lettered parts of the drawings, A is the shuttle body having two compartments B, B, separated at the center of the shuttle by a partition C. This partition has a vertical opening D, leading to the bottom on the compartments, and an opening leading from said vertical opening at E, out through the side aperture F, in the side of the shuttle body A. Surrounding the central side aperture E, is a countersunk recess H, in the outer face of the shuttle body. In the countersunk recess H, is a spring retained tension-disk I, fitting loosely against the aperture E, and is made a little smaller in diameter than said recess, but large enough to cover the aperture. Said tension disk is held in place by a spring J, attached to the back of the same

at one end, and to the shuttle body A, at the other end. As here shown the spring J, is attached at K, to that portion of the partition C, which forms the rear boundary of the vertical opening D, of the partition, but the spring may be attached to any suitable portion of the shuttle so that an outward strain of the woof L, on said tension disk will be against a spring resistance.

The use of the tension is to prevent the woof from feeding out with loops or kinks in it.

The sharp edge at the sides of the countersunk recess is chamfered off at N, N, Fig. 2, to admit of a free passage of the woof L, between the tension disk I, and the side of the shuttle body A. However this may not be always necessary and may be followed or not as desired.

The cans P, P, are preferably rectangular in form, but may be round, and are open at one end. The cans are filled with woof by means and methods known to weavers and form no part of this invention. As herein illustrated, the left hand can is first filled, commencing at the bottom, filling in said woof and ending at the top. From thence the woof L, is passed over at O, and down to the bottom of the other can as indicated by dotted lines in Fig. 4, and then this can is filled in like manner as the other one was filled and ending at the top. The cans P, P, are then placed in the compartments B, B, of the shuttle body A, as in Fig. 1, with their open ends contiguous to each other, with the partition C, between them. That portion O, of the woof L, which passes from one can to the other crosses through the lower end of the vertical opening D, of the partition C, and the free end of the woof L, of one of the cans is threaded through the aperture E, of the shuttle body A, and comes out between said shuttle body and the tension disk I, as in Figs. 1, 2, and 3.

It will be observed as herein illustrated, that the woof L, feeds out of the right hand can first, and then the crossing portion O, feeds out, and continuing, next feeds out of the left hand can.

By means of this construction, and method of using cans for holding the woof, I am enabled to have a central feed from the shuttle body A, the cans keep the woof L, in place,

and the partition C, keeps the cans from contact with each other during the throw of the shuttle.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A shuttle body provided with open compartments adapted for holding cans, a partition between said compartments for separating the contiguous open ends of said cans, a passage leading from one compartment to the other through said partition, and from thence through the side wall of the shuttle body, a counter-sunk recess in the outer face of the shuttle body around the mouth of said opening, in combination with a tension disk in said counter-sunk recess, and a spring attached to the interior of the shuttle body at one end and to the tension disk at the other end, substantially as set forth.

2. A shuttle body provided with open compartments adapted for holding cans, a partition between said compartments for separating the contiguous open ends of said cans, a passage leading from one compartment to the other and thence out through the side wall of the shuttle body, a counter-sunk recess in the outer face of said shuttle body around the mouth of said opening, the edges of said recess being chamfered off, a tension disk in said recess, and a spring holding said tension disk in place, substantially as set forth.

In testimony of the foregoing I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. KYNETT.

Witnesses:

J. W. WRIGHT,
W. S. WRIGHT.