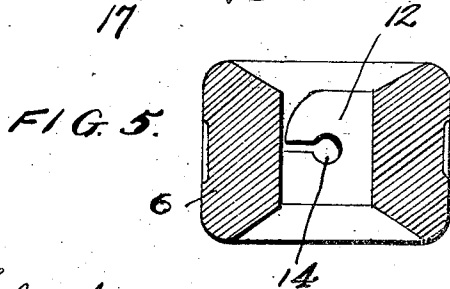
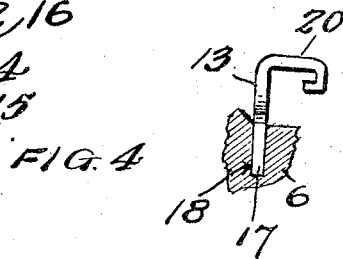
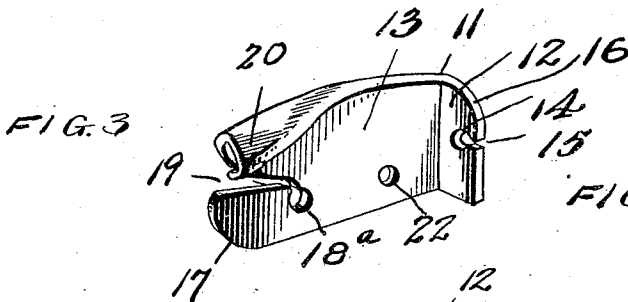
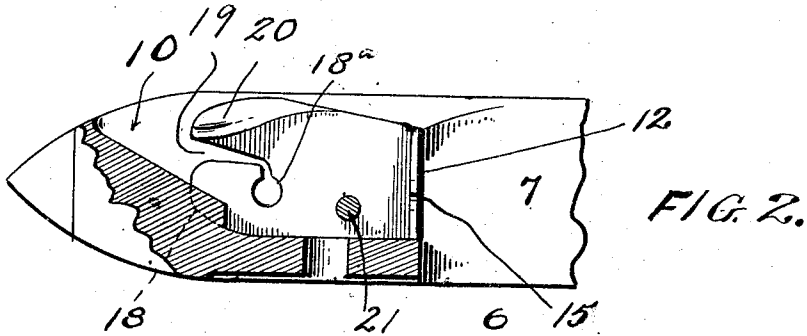
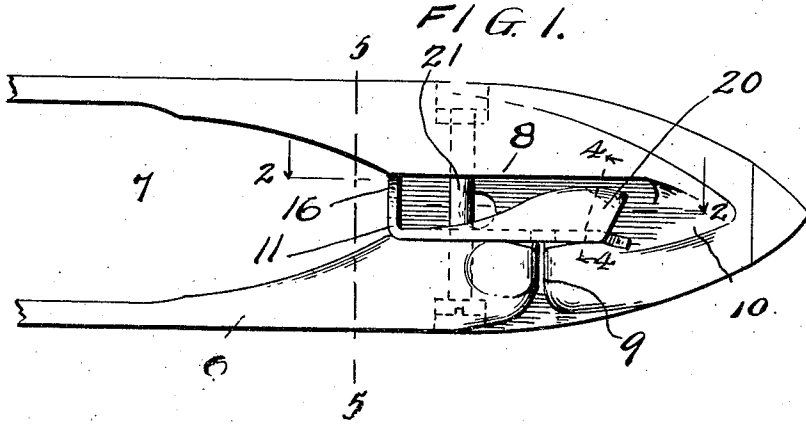


W. H. PORTNER & D. H. BEAIRD.
LOOM SHUTTLE.

APPLICATION FILED NOV. 23, 1911.

1,037,528.

Patented Sept. 3, 1912.



WITNESSES

C. A. Davis
E. J. McCarthy

W. H. Portner
D. H. Beaird
INVENTOR
by McNeill & McNeill
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. PORTNER AND DANIEL H. BEAIRD, OF GADSDEN, ALABAMA.

LOOM-SHUTTLE.

1,037,528.

Specification of Letters Patent.

Patented Sept. 3, 1912.

Application filed November 23, 1911. Serial No. 662,075.

To all whom it may concern:

Be it known that we, WILLIAM H. PORTNER and DANIEL H. BEAIRD, citizens of the United States, residing at Gadsden, in the county of Etowah and State of Alabama, have invented certain new and useful Improvements in Loom-Shuttles, of which the following is a specification.

The present invention relates to loom shuttles, and the primary object is to provide a simple and effective guiding means for the thread, which guiding means can be easily introduced and removed from the shuttle body, and when in place therein is rigidly positioned, and will permit the thread being readily introduced thereinto.

An embodiment of the invention that is at present considered the preferable one, is illustrated in the accompanying drawings, wherein:—

Figure 1 is a plan view of the end portion of a bobbin, showing the thread-guiding means in place. Fig. 2 is a sectional view on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the thread guide detached. Fig. 4 is a detail sectional view on the line 4—4 of Fig. 1. Fig. 5 is a sectional view on the line 5—5 of Fig. 1.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, the shuttle includes the usual body 6, having a bobbin chamber 7 and a thread passageway including a longitudinally disposed portion 8 that opens into the front end of the bobbin chamber, and a transversely disposed portion 9 opening through one side of the body. The forward end of the portion 8 is tapered as illustrated at 10, in Fig. 2.

Located in the longitudinally disposed portion 8 of the thread passageway, is a thread guide, which, in the embodiment shown, consists of a single piece of sheet metal 11 bent to form angularly disposed leaves 12 and 13. The leaf 12 extends across the passageway 8 at its juncture with the bobbin chamber 7, and is provided with a thread-receiving eye 14 having a throat 15 opening through the free edge of the leaf. The portion of this leaf above the throat 15, is curved, as shown at 16, so as to be spaced from the adjacent wall of the thread-passageway 8, in order to permit the thread being passed down into the throat 15, and

thence to the eye 14. The leaf 13, as shown in Fig. 1, extends longitudinally along one wall of the thread passageway 8, and has its forward lower margin 17 seated in a slot 18 cut in the bottom of the passageway. This leaf is also provided with a thread receiving eye 18^a, from which extends a flared throat 19 that opens through the front edge of the leaf. The upper margin of the leaf 13, at its front end, is curved over and downwardly, as shown at 20, to provide a guard lip that overhangs the thread passage. The thread guide is secured in place by a screw or other fastener 21, passed transversely through the front end of the bobbin body, through an opening 22 in the leaf 13 and across the passage 8. This fastener prevents the detachment of the thread guide outwardly through the open side of the passageway 8, and by retaining the front end 17 in the slot 18, secures the same against any lateral play or movement.

It will be evident that this structure is exceedingly simple, and can be easily installed in a shuttle body. At the same time, it can be readily threaded, inasmuch as the thread from the bobbin can be first passed downwardly over the curved edge 16 of the leaf 12, and thence into the throat 15 of the eye 14. It can likewise be readily introduced past the front end of the leaf 13 into the throat 19, and thence to the eye 18^a.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is:

In a loom shuttle, a shuttle body having a bobbin chamber and a passageway that extends from one end of the chamber and opens through one side of the body, a thread guide located in the passageway and comprising angularly disposed leaves provided with thread-receiving eyes, one of said leaves extending across the passageway and the other longitudinally therein, a guard lip located at the upper and outer end of the

latter leaf, the shuttle body having a longitudinally disposed slot opening into the bottom of the passageway and receiving the lower margin of the longitudinally disposed leaf, and a fastening device passing across the passageway and through the longitudinally disposed leaf.

In testimony whereof we have affixed our signatures in presence of two witnesses.

WILLIAM H. PORTNER.
DANIEL H. BEAIRD.

Witnesses:

W. A. CROCHERON,
N. B. NELSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."