

S. L. CHILD.
HAND THREADING SHUTTLE.
APPLICATION FILED SEPT. 9, 1912.

1,054,392.

Patented Feb. 25, 1913.

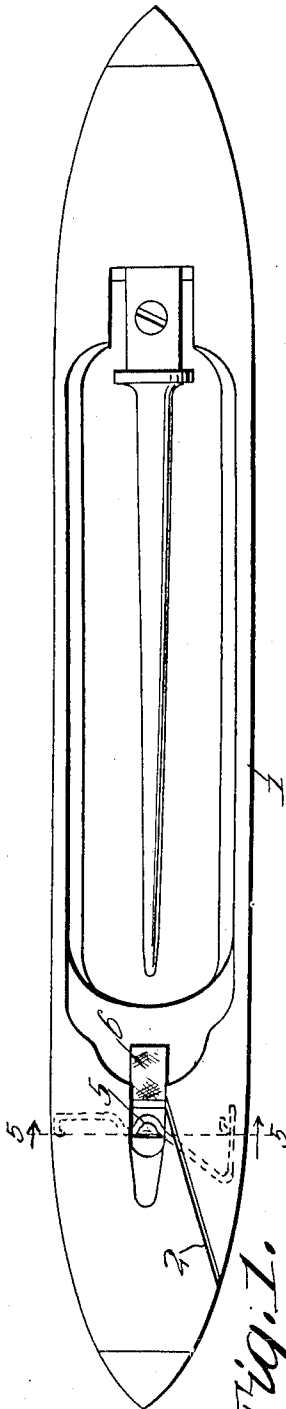


Fig. 1.

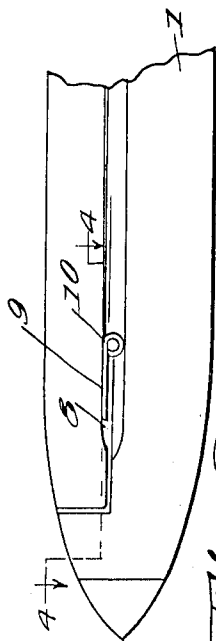


Fig. 2.

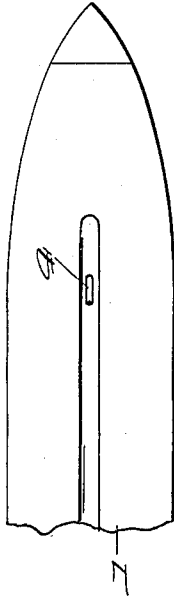


Fig. 3.



Fig. 6.



Fig. 7.

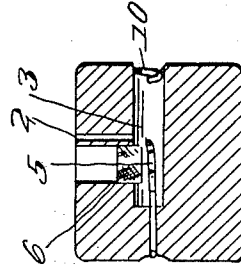


Fig. 5.

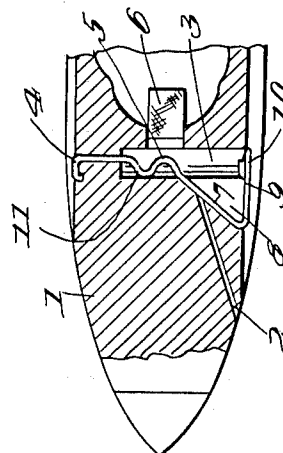


Fig. 4.

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UNITED STATES PATENT OFFICE.

STEPHEN L. CHILD, OF NEW BEDFORD, MASSACHUSETTS.

HAND-THREADING SHUTTLE.

1,054,392.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed September 9, 1912. Serial No. 719,293.

To all whom it may concern:

Be it known that I, STEPHEN L. CHILD, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Hand-Threading Shuttles, of which the following is a specification.

This invention relates to certain new and useful improvements in hand threading shuttles, and the object of the same is to provide a shuttle of this type which has simple and improved means for enabling the shuttle to be easily and quickly threaded.

In the drawings: Figure 1 is a top plan view of a shuttle constructed in accordance with the present invention. Fig. 2 is a fragmentary side elevation. Fig. 3 is a fragmentary side elevation of the opposite side of the shuttle. Fig. 4 is a section on the line 4—4 of Fig. 2. Fig. 5 is a section on the line 5—5 of Fig. 1. Fig. 6 is a side elevation of the threading member, and Fig. 7 is a top plan view thereof.

The shuttle body 1 has the usual diagonal slot 2 which extends down one side of the shuttle and horizontally thereof terminating in a transverse delivery eye passage 3. The threading member is formed of wire and has a hook-shaped end 4 which engages or projects in a groove provided therefor in the shuttle side to prevent twisting movement of the threading member. The threading member is formed with a U-shaped bend 5 which is located opposite to and below a pad 6 that is secured in the shuttle throat, the upper face of the pad being disposed above the delivery eye passage 3 as depicted in Fig. 5 of the drawings. From the bend 5 a diagonal arm 7 extends outwardly through a cutout portion 8 that forms an enlargement of the horizontal portion of the diagonal slot 2, the arm 7 having its free end turned inwardly at 9 and formed with a delivery or thread eye 10, which latter occupies the outer or free end of the passage 3. By reference to Fig. 4 it will be seen that a second U-shaped bend 11 is formed on the threading member adjacent to the thread engaging bend 5, the bend 11 contacting with one wall formed by

passage 3 to brace the thread engaging member to hold same rigid and against movement.

In threading the shuttle, the thread is placed in slot 2 and drawn down through the same and rearwardly thereof along the horizontal portion of said slot so as to engage under the V-shaped end of the threading member, whereupon the thread will enter eye 10 and engage the bend 5, the thread passing downwardly from pad 6 to and over the bend 5.

Having thus described my invention, I claim as new and desire to secure by Letters Patent;—

1. In a hand threading shuttle having a transverse passage which communicates with the throat and the diagonal slot thereof, a pad in the throat, and a threading member in said passage formed of a strand of wire having one end thereof hook-shaped and embedded in one side of the shuttle, said member having a bend that contacts with one wall of said passage and a second U-shaped bend which alines with and is located below said pad, said U-shaped bend having a diagonal arm which extends in an enlarged portion provided therefor in the horizontal part of the diagonal slot, said arm being turned inwardly and terminating in an eye which is located in said passage at the free end thereof.

2. In a hand threading shuttle having a passage which communicates with the throat and threading slot thereof, a threading member in said passage formed of a strand of wire having one end thereof embedded in one side of the shuttle, said member having a bend that contacts with one wall of said passage and a second U-shaped bend, said U-shaped bend having a diagonal arm which extends in an enlarged portion of the diagonal slot, said arm being turned inwardly and terminating in an eye which is located in said passage.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

STEPHEN L. CHILD.

Witnesses:

JAMES H. MACKIE,

WILLIAM H. HASKINS.