

No. 774,944.

PATENTED NOV. 15, 1904.

H. A. KENNEDY.
LOOM SHUTTLE.

APPLICATION FILED JUNE 16, 1904.

NO MODEL.

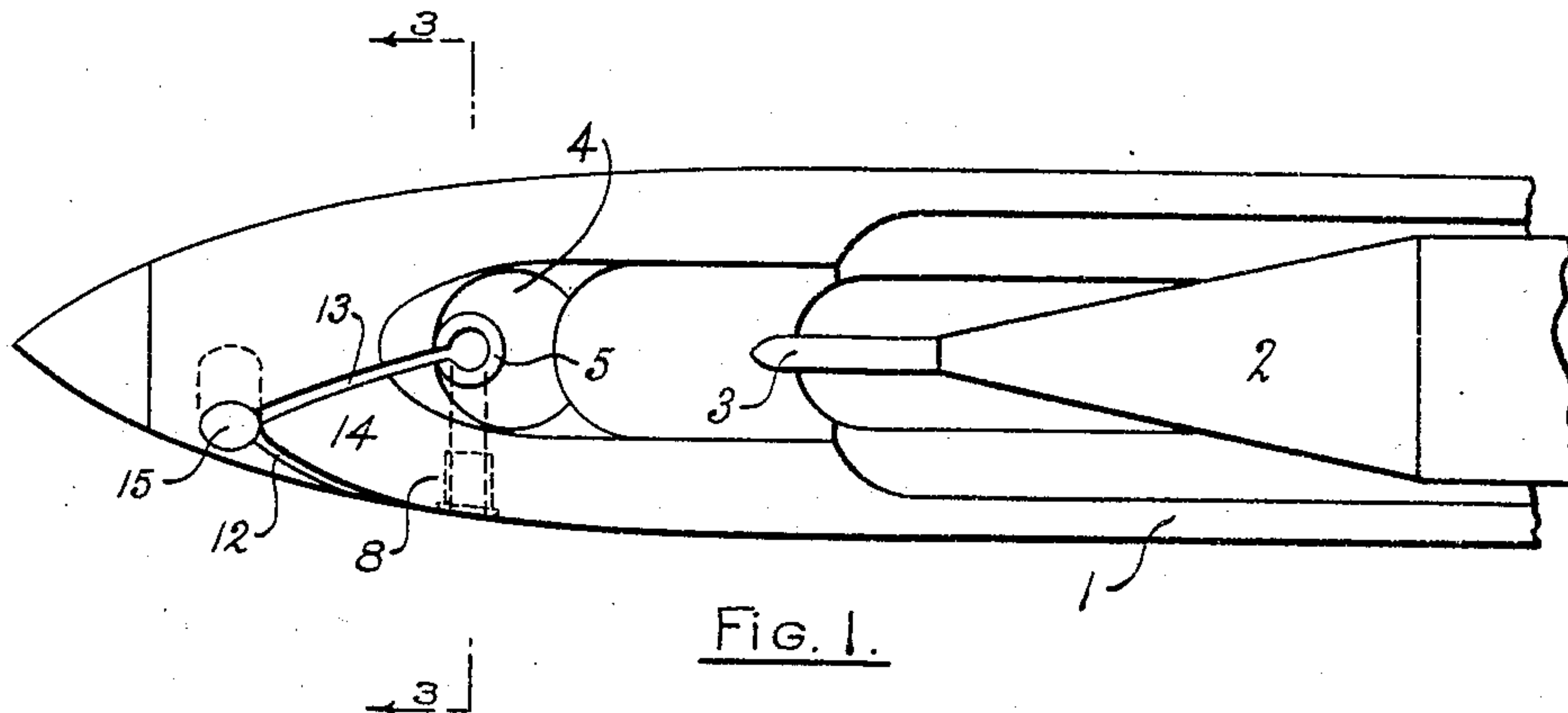


Fig. 1.

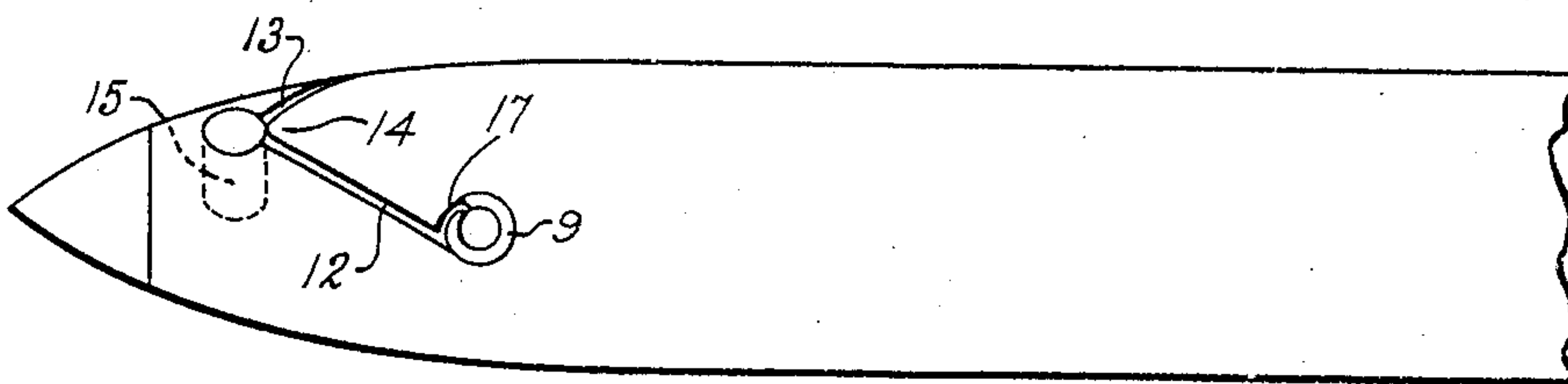


Fig. 2.

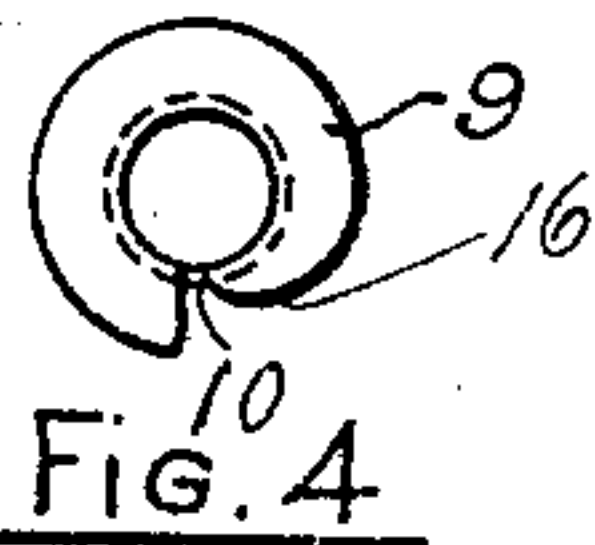


Fig. 4.

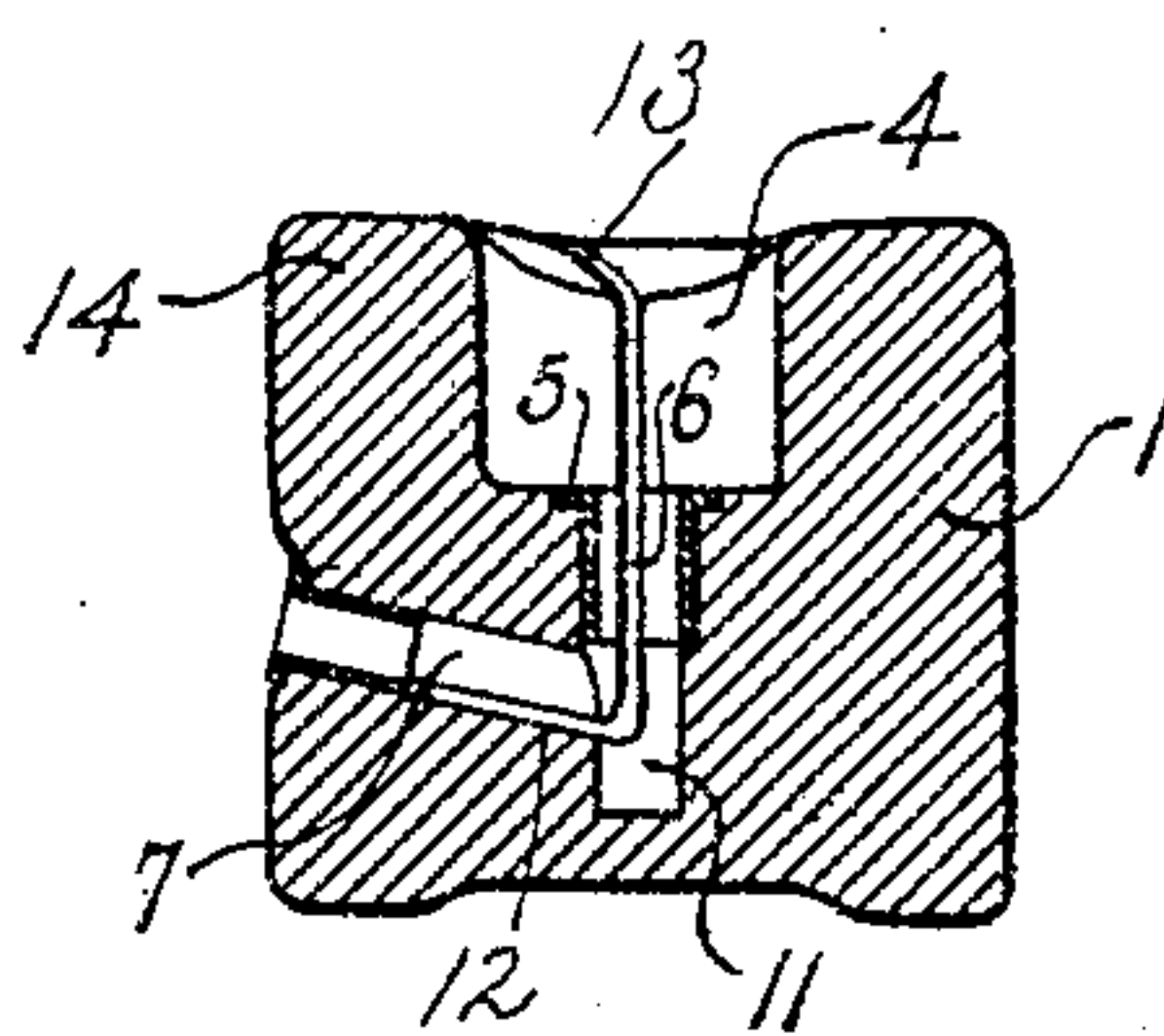


Fig. 3.

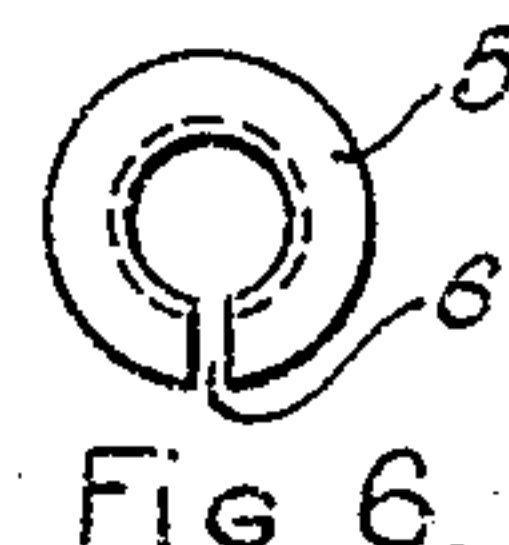


Fig. 6.



Fig. 5.



Fig. 7.

WITNESSES

A.G. Pieczentkowski.

William C. Brown

INVENTOR

Henry A. Kennedy
Horatio C. Bellows

BY

ATTORNEY

UNITED STATES PATENT OFFICE.

HENRY A. KENNEDY, OF WARWICK, RHODE ISLAND, ASSIGNOR OF ONE-HALF TO JOHN J. BELLOWS, OF PROVIDENCE, RHODE ISLAND.

LOOM-SHUTTLE.

SPECIFICATION forming part of Letters Patent No. 774,944, dated November 15, 1904.

Application filed June 16, 1904. Serial No. 212,754. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. KENNEDY, a citizen of the United States, residing at Warwick, in the county of Kent and State of Rhode Island, have invented a certain new and useful Improvement in Loom-Shuttles, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to self-threading loom-shuttles wherein a slot leads to the shuttle-eye, and has for its objects the ends commonly sought in such structures, but particularly an original and effective means of admitting the thread to the shuttle-eye and retaining the former against disengagement.

To the above ends my invention consists of the novel structure described, and illustrated in the drawings herewith, wherein—

Figure 1 is a plan view of the eye end of a loom-shuttle embodying my invention; Fig. 2, a side elevation of the same; Fig. 3, a transverse section on line 3 3 of Fig. 1; Figs. 4 and 5, plan and side views, respectively, of the outer eyelet; and Figs. 6 and 7, similar views of the inner eyelet.

Like reference-numerals indicate like parts throughout the views.

My invention is embodied in an ordinary shuttle-body 1, carrying the usual cap 2 upon the spindle 3 and provided with the threading-chamber 4. The bottom of the chamber is vertically pierced, 11, to receive an eyelet 5, provided with a vertical slit 6 throughout its length. From the lower portion of the piercing or passage described a second or delivery passage 7 extends at nearly right angles therewith to the side of the shuttle-body and has in its orifice an eyelet 8, whose flanged head 9 and body is provided with an inclined longitudinal slot 10. Extending forwardly and upwardly from the passages 7 and 11 are kerfs 12 and 13, respectively, which converge at a point slightly to one side of the upper surface of the shuttle-body, forming the beak 14.

Vertically mounted in the shuttle-body at the point of intersection of the slots 12 13 is

a soft-rubber cylindrical member or plug 15, whose upper or exposed surface is flush with the surface of the shuttle-body and whose side normally contacts with the extremity of the beak 14.

The flanged head 9 of the eyelet 8 has an inclined cut 16 leading to the slot 10, and when this eyelet is mounted in the channel 7 this inclined portion is situated upon the upper side and slightly overlapping a segmental slot or channel 17 in the shuttle-body, which forms a continuation of slot 12.

It will be observed that the side of the plug 15 normally contacts with the extremity of the beak 14. In threading the shuttle if the thread is of sufficient strength the elasticity of the plug allows its insertion without any manipulation of the plug. In some cases, however, it is necessary to depress the upper face of the plug with the thumb during the insertion of the thread beneath the beak, and upon release the side of the plug again contacts with the beak.

In threading after the thread has been drawn beneath the beak it is brought by way of the channels 12 and 17 through the slot 10 into the eyelet 8.

Having described my invention, what I claim is—

1. In a loom-shuttle, the combination with the beak and channels for the passage of thread thereunder of elastic means contacting with the beak for closing the channels.

2. In a loom-shuttle, the combination with the body of a beak and channels for the passage of thread thereunder, of a compressible plug in the body contacting with the beak.

3. In a loom-shuttle, the combination with the body of a beak and channels for the passage of thread thereunder, of an elastic plug in the body contacting with the beak.

In testimony whereof I have affixed my signature in presence of two witnesses.

HENRY A. KENNEDY.

Witnesses:

HORATIO E. BELLOWS,
WILLIAM E. BROWN.