

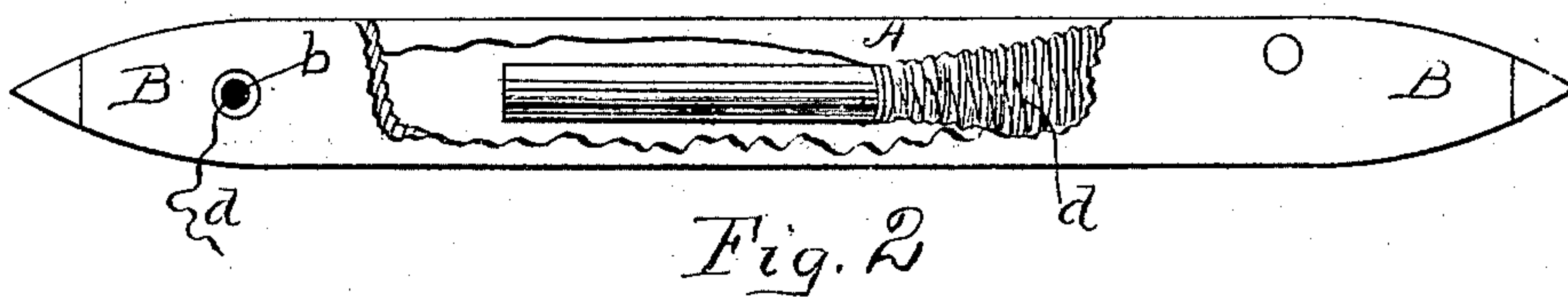
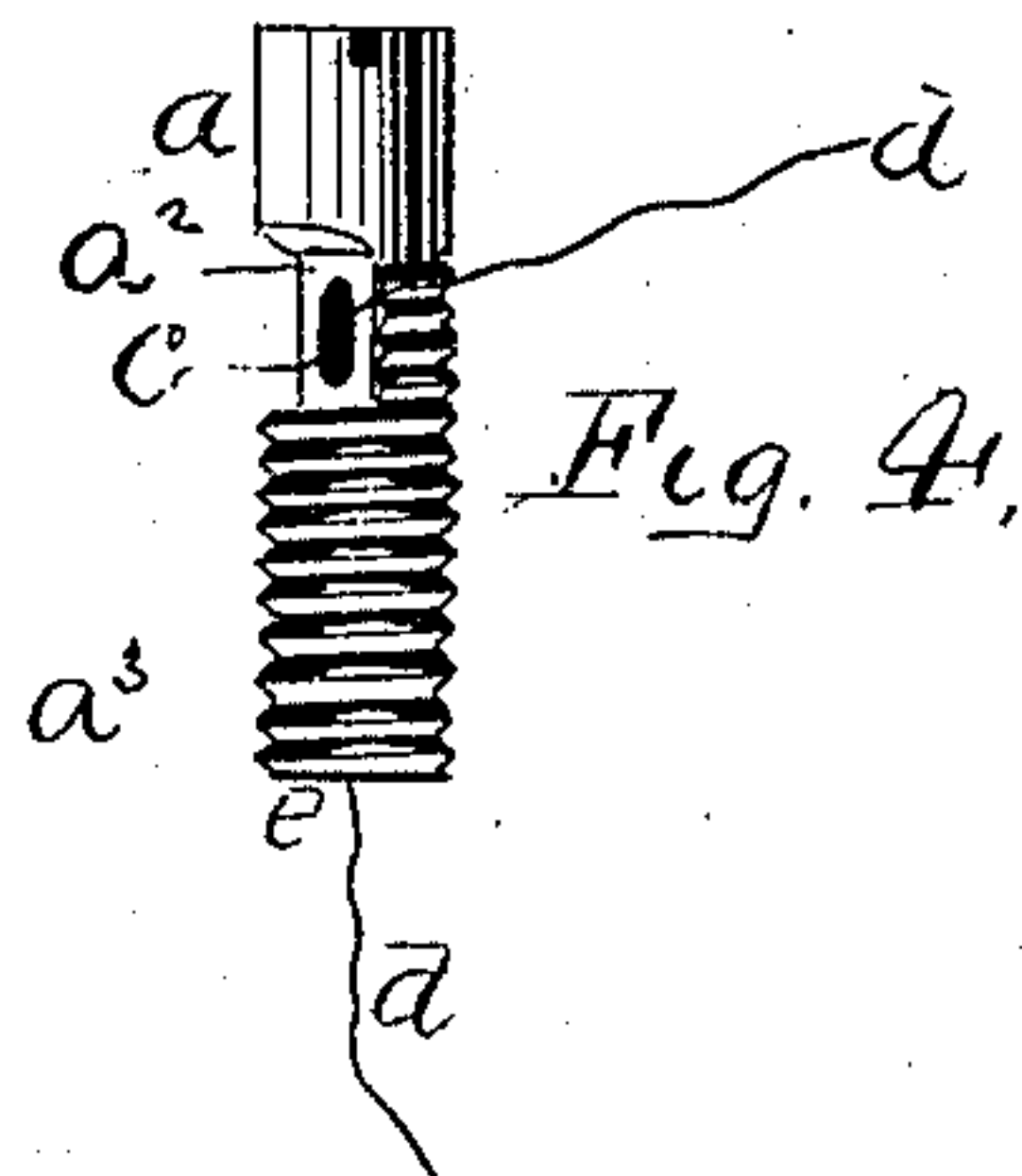
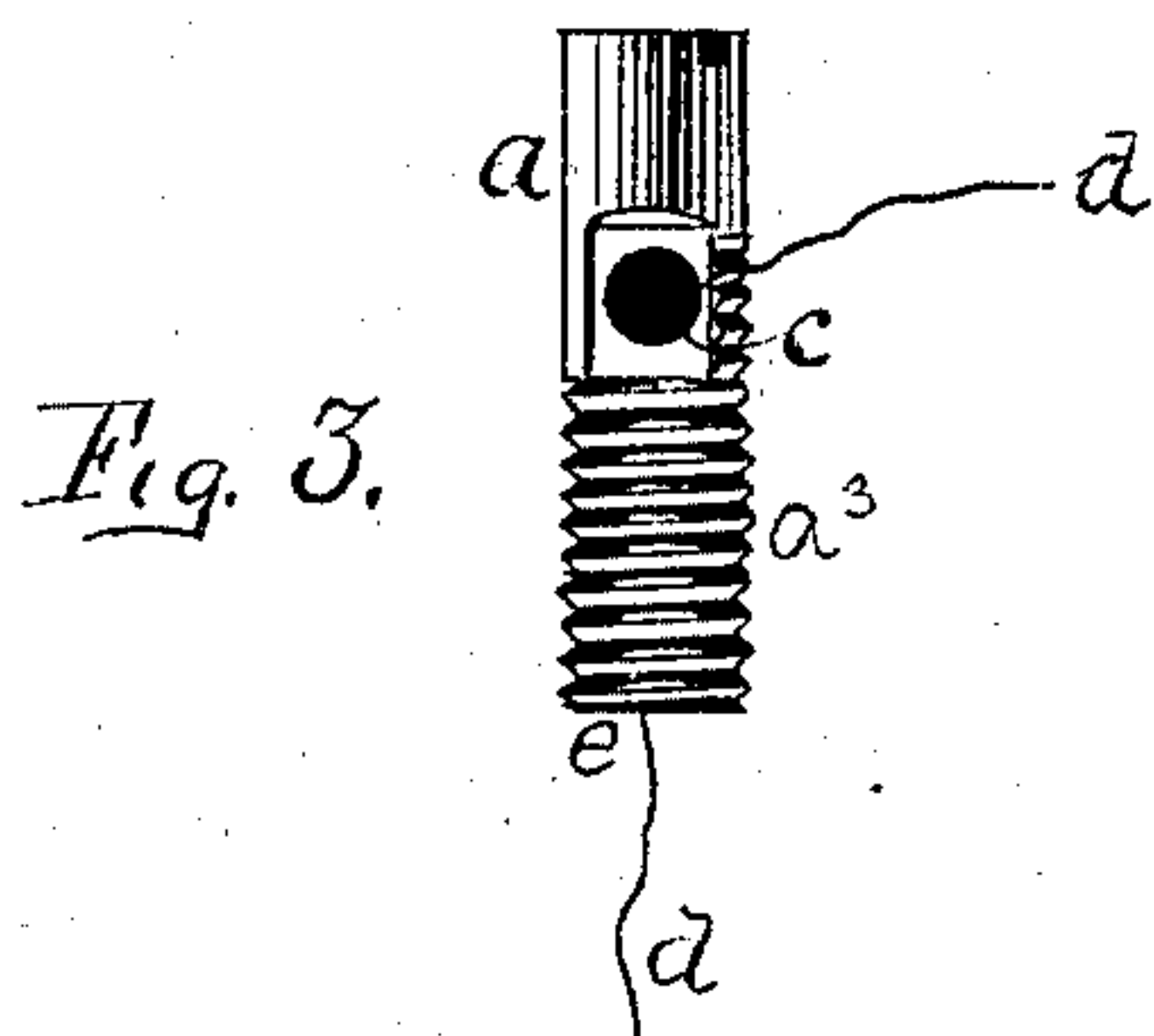
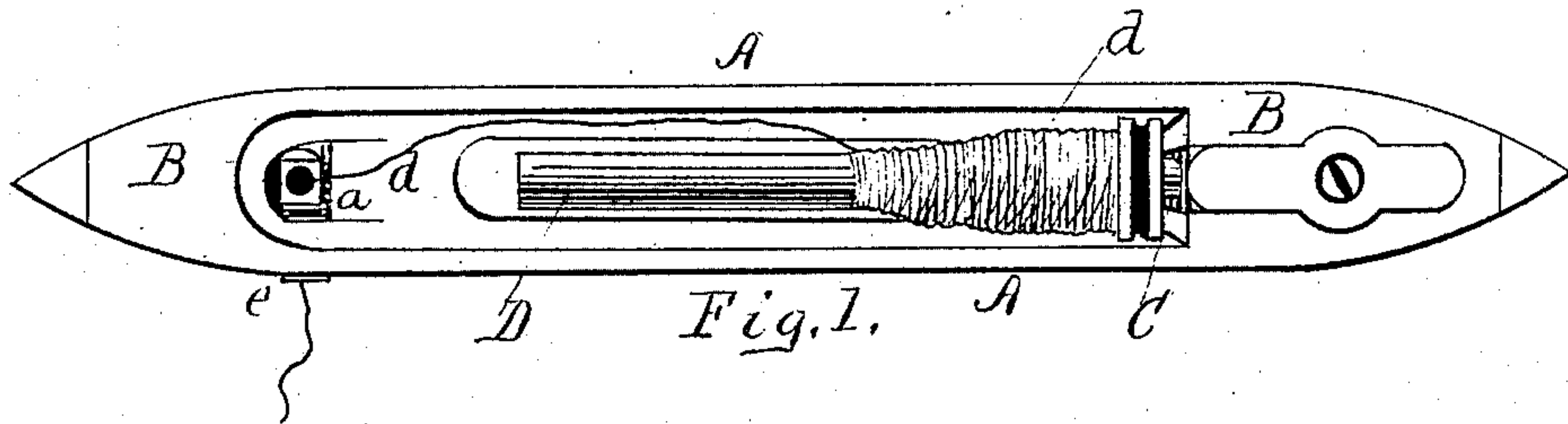
(No Model.)

J. P. THOMPSON.

LOOM SHUTTLE.

No. 284,089.

Patented Aug. 28, 1883.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN P. THOMPSON, OF PHOENIX, MARYLAND.

## LOOM-SHUTTLE.

SPECIFICATION forming part of Letters Patent No. 284,089, dated August 28, 1883.

Application filed January 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN P. THOMPSON, a citizen of the United States, residing at Phoenix, Baltimore county, Maryland, have invented certain new and useful Improvements in Loom-Shuttles, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, in which—

Figure 1 is a plan view of a loom-shuttle having my improvement applied thereto. Fig. 2 is a side elevation of the same, partly broken away. Fig. 3 is a view of the screw-eye for producing "drag" on the thread, and Fig. 4 is a similar view of the eye in a different position.

My invention consists in a shuttle having improved means for regulating the drag or tension of the thread, as will be more fully described hereinafter, and afterward specifically pointed out in the claims.

Referring to the drawings by letter, A represents the sides, and B the ends, of an ordinary loom-shuttle, having the spindle C attached in any approved manner, upon which is placed the bobbin D. All these parts are of any known construction, and form no part of my invention. The bobbin is wound with "filling" or "woof"  $d$ , which is carried thence through an eye near the end of the shuttle-body and caused to emerge at  $e$ . (See Figs. 1 and 2.) In passing it through this eye I give a proper drag or tension to the thread through the following instrumentalities:

A is a metallic eye-piece, having a head,  $a'$ , a cut-away portion,  $a''$ , and a screw-threaded end,  $a^3$ . This eye-piece is bored longitudinally through the screw-threaded end, as at  $b$ , which opening is continued at substantially a right angle until it emerges at  $c$  through the

cut-away portion  $a''$ . This eye-piece is placed in a hole bored through the end of the shuttle-body, the openings  $c$  and  $b$  appearing as shown in Figs. 1 and 2. The filling  $d$  passes into the eye-piece through the opening  $c$ , and emerges from it and the shuttle at  $e$ , as before stated. When the eye-piece is turned so that the opening  $c$  is upright, as in Fig. 1, there will be little or no drag to it while passing through; but by turning the eye-piece, by means of a screw-driver inserted in a notch in the end of the eye-piece on the side of the shuttle opposite to that on which the thread emerges, the thread is caused to pass over a more or less abrupt angle to reach the opening  $c$ , thus causing any desired drag or tension.

My device is very simple, very cheap, and very effective, and is adapted to any kind of shuttle used to carry "weft" or filling.

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

1. A loom-shuttle provided with an adjustable eye-piece having passages  $c$  and  $e$  for the thread formed therein, whereby by the adjustment of said eye-piece the tension of the thread passing through the same may be regulated, as set forth.

2. The combination, with the shuttle-body, of an eye-piece provided with the passages  $c$  and  $e$  for the passage of the thread, said eye-piece being capable of rotary adjustment, whereby the tension of the thread passing therethrough may be regulated, as set forth.

Witness my hand.

JOHN P. THOMPSON.

Witnesses:

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