

(No Model.)

W. APPLETON
BUTTON.

No. 370,441.

Patented Sept. 27, 1887.

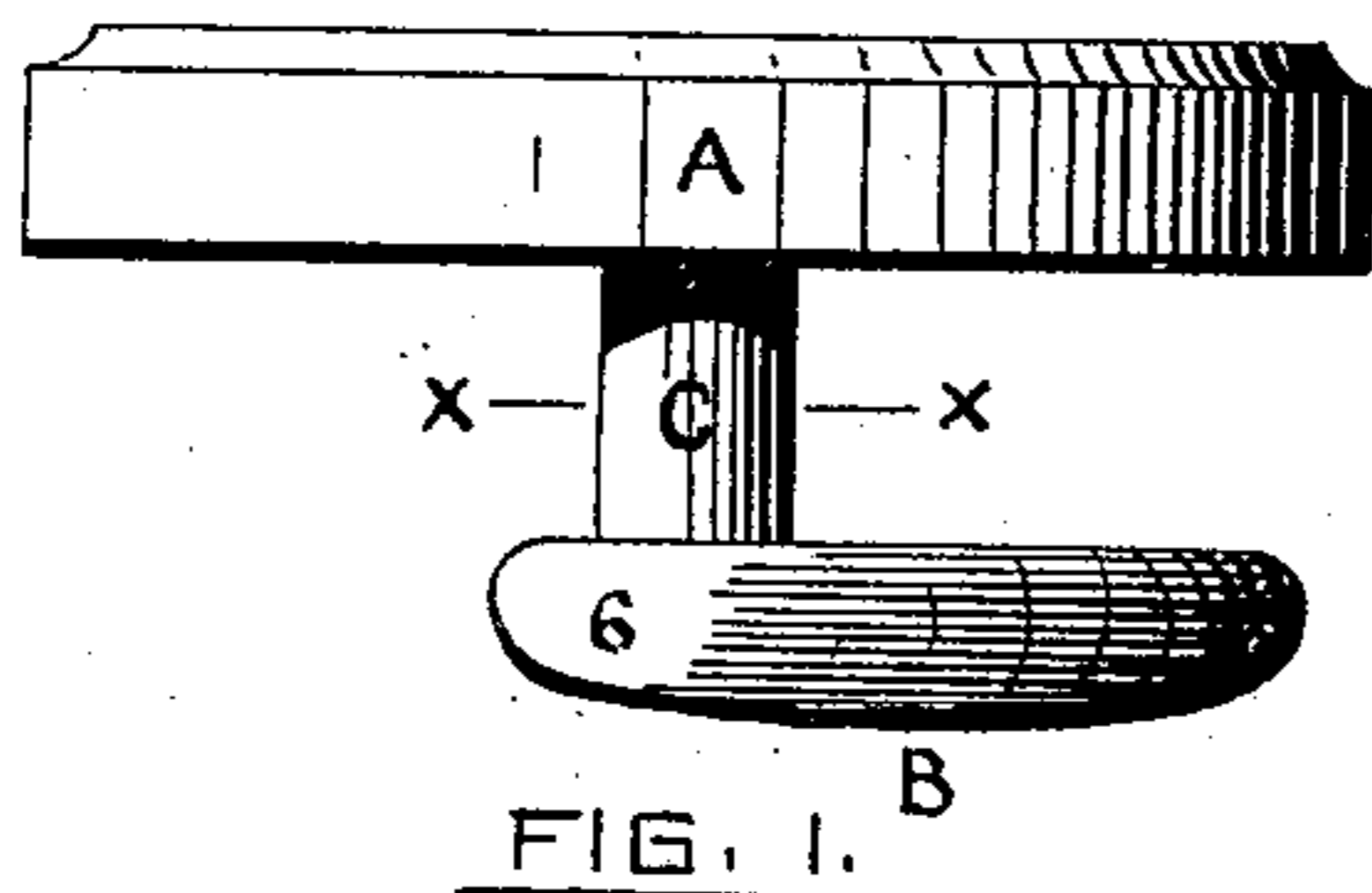


FIG. 1.

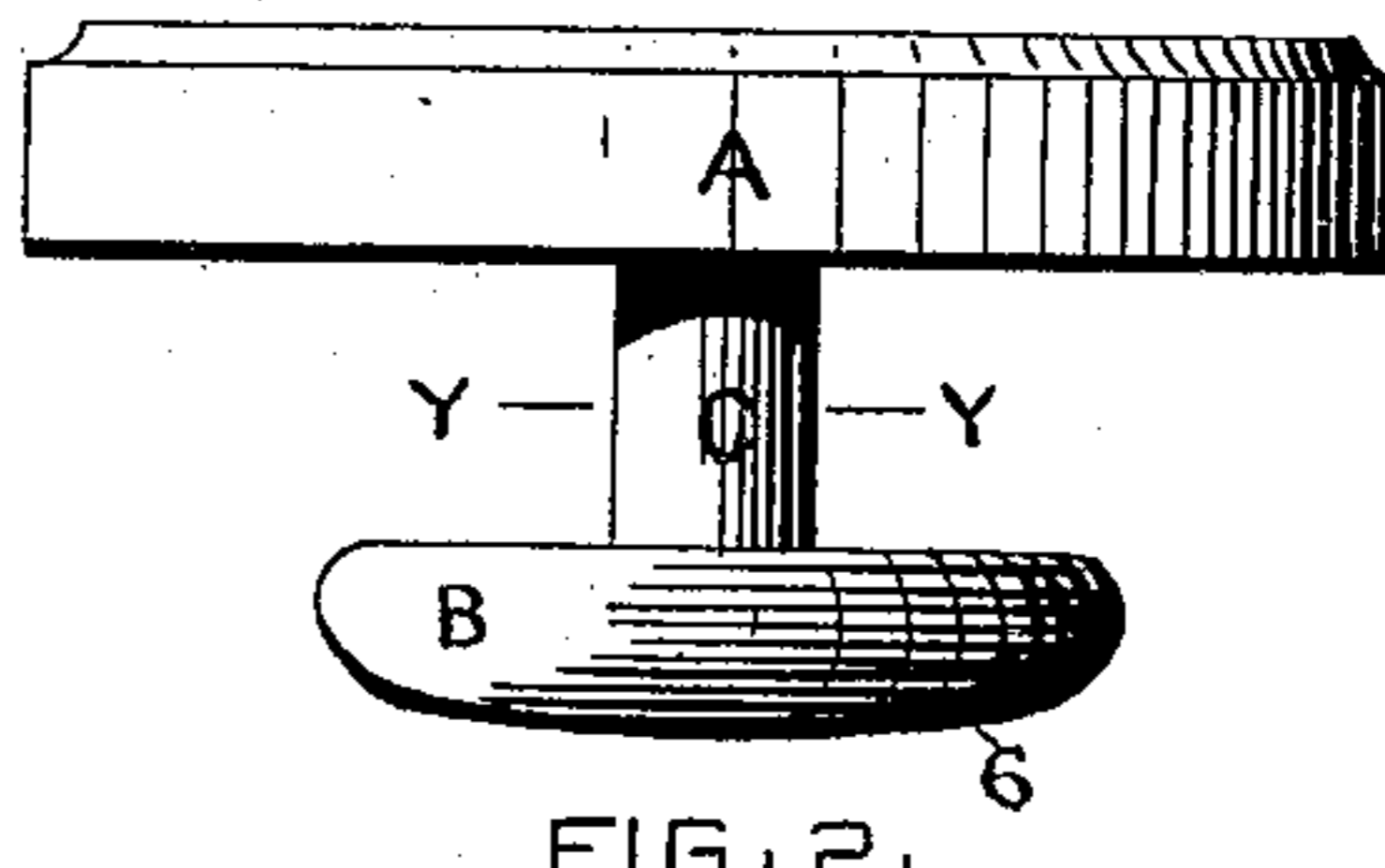


FIG. 2.

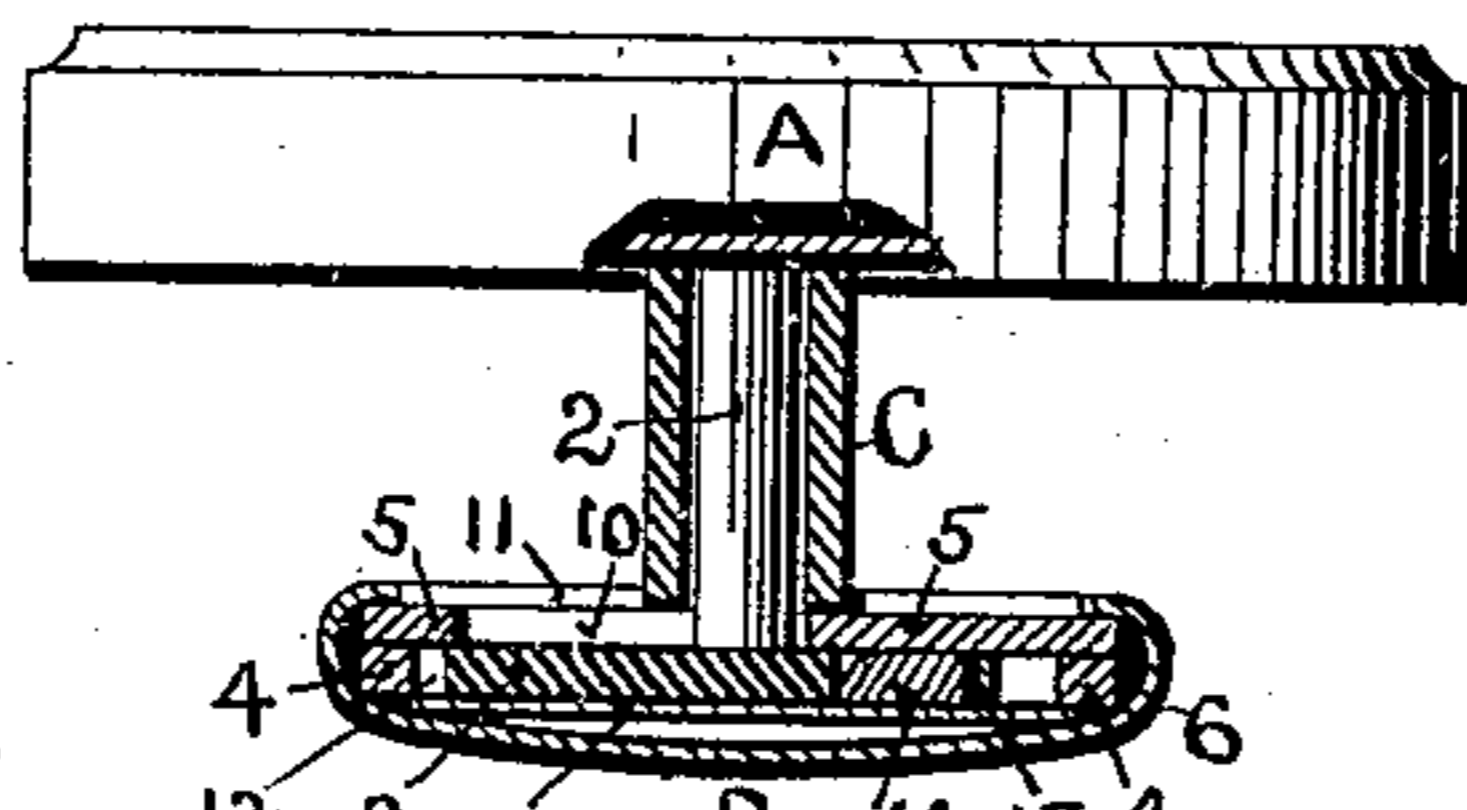


FIG. 3.

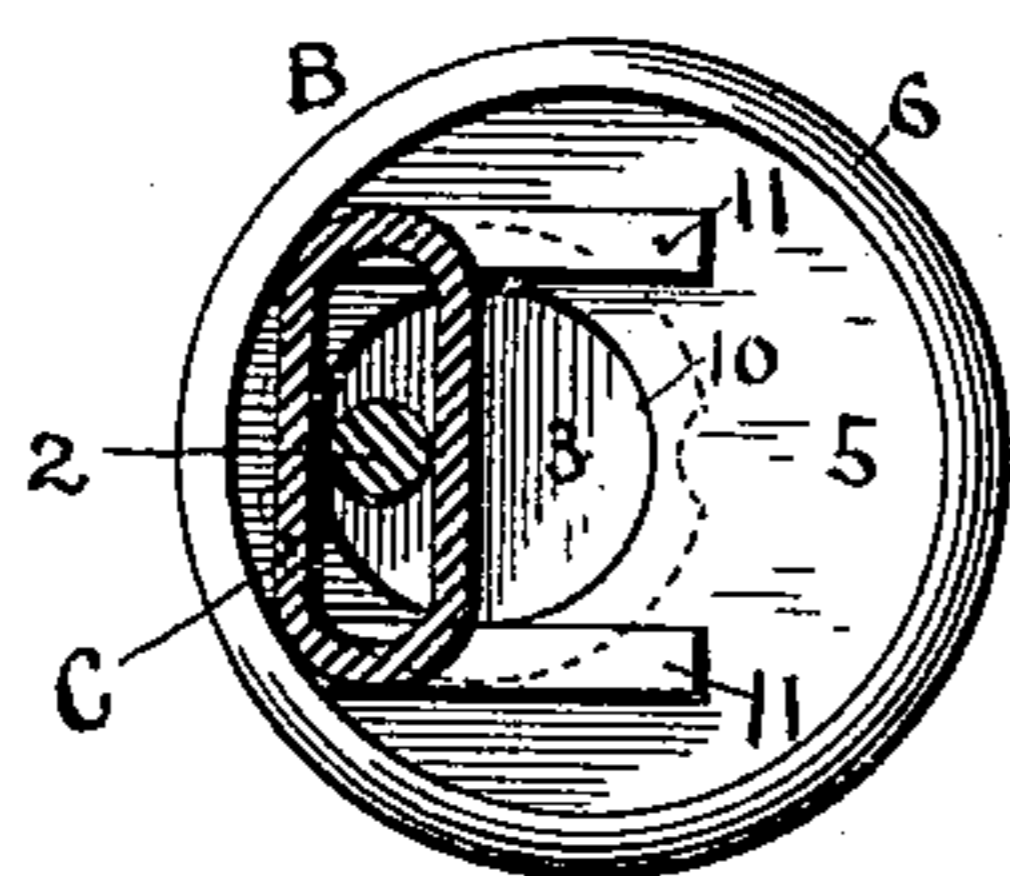


FIG. 5.

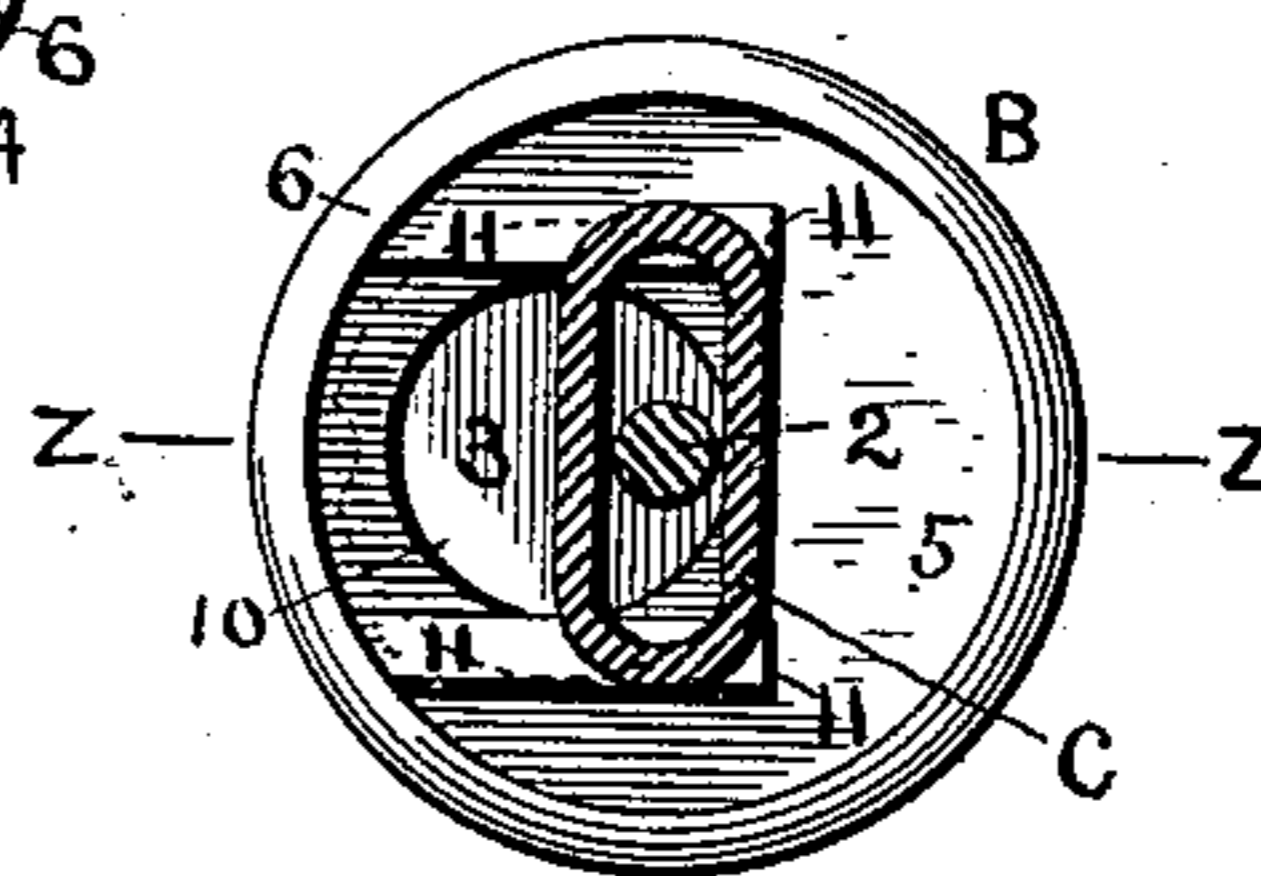


FIG. 6.

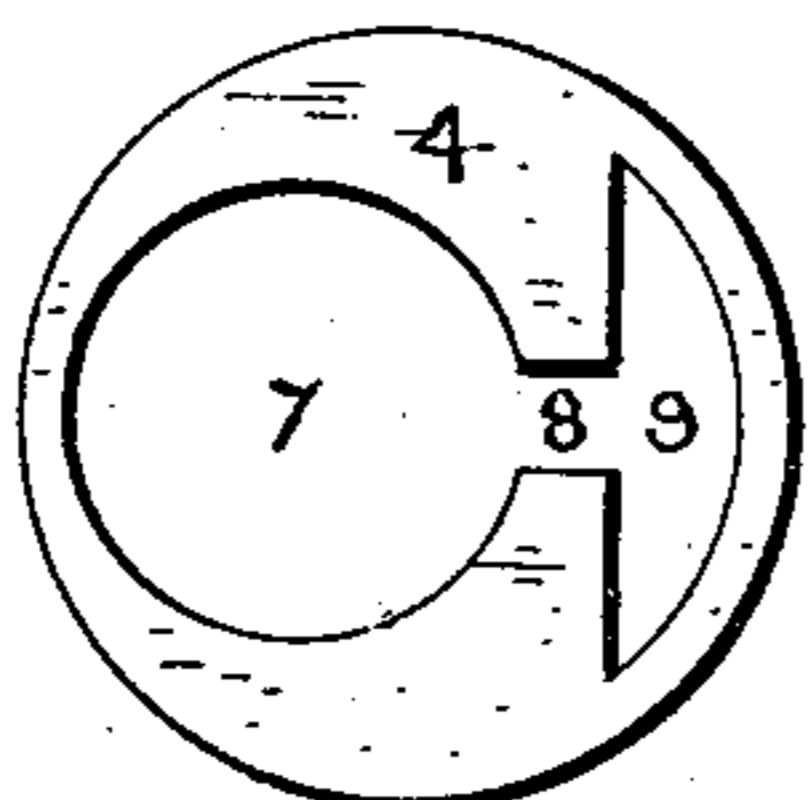


FIG. 7.

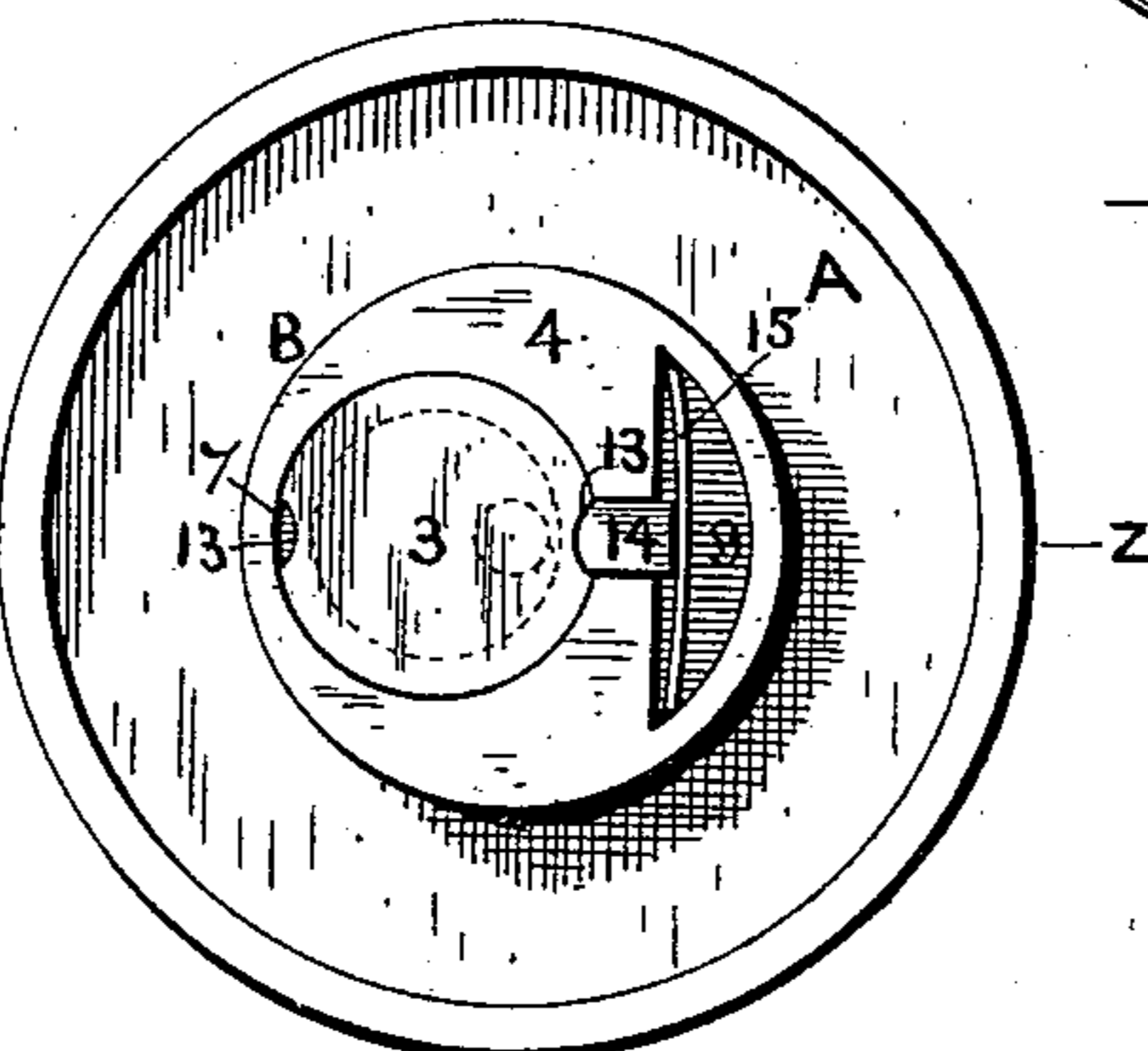


FIG. 4.

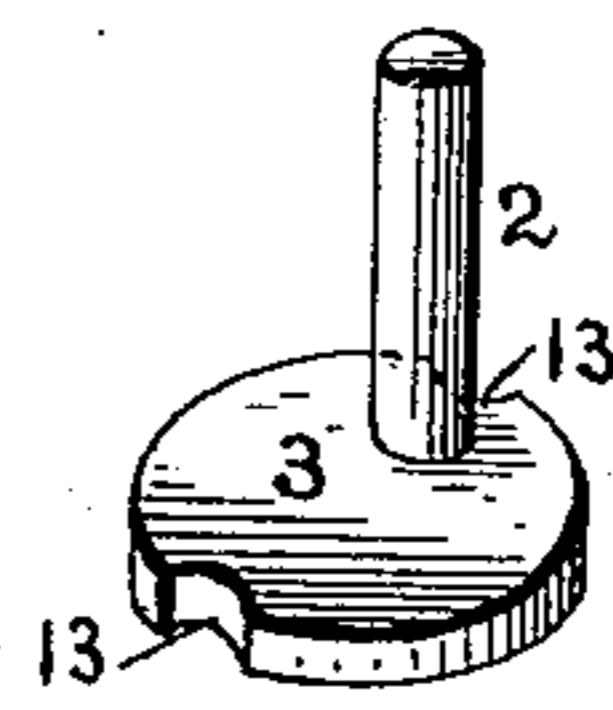


FIG. 10.

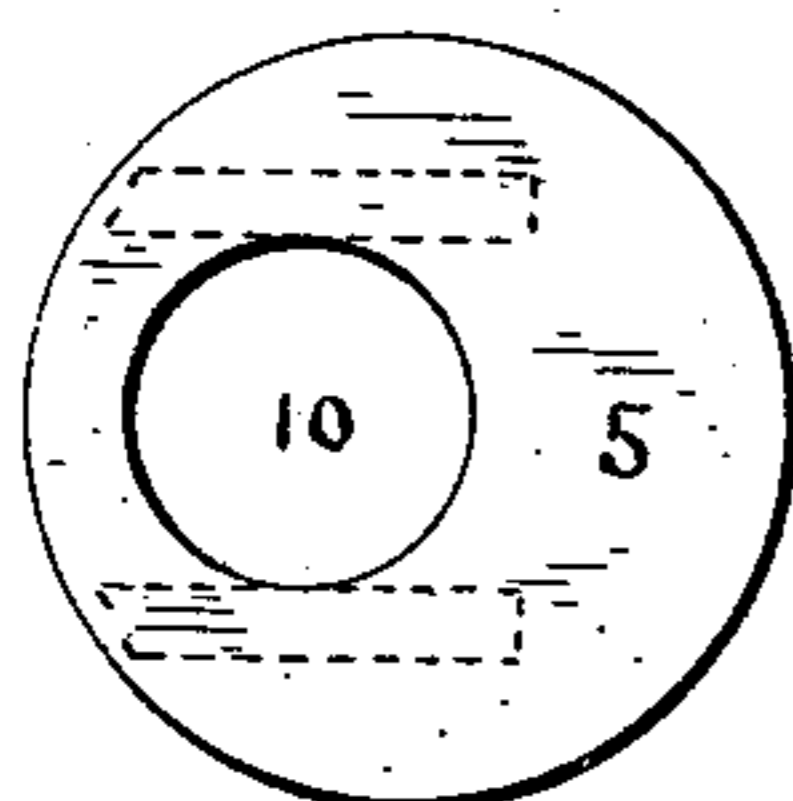


FIG. 8.

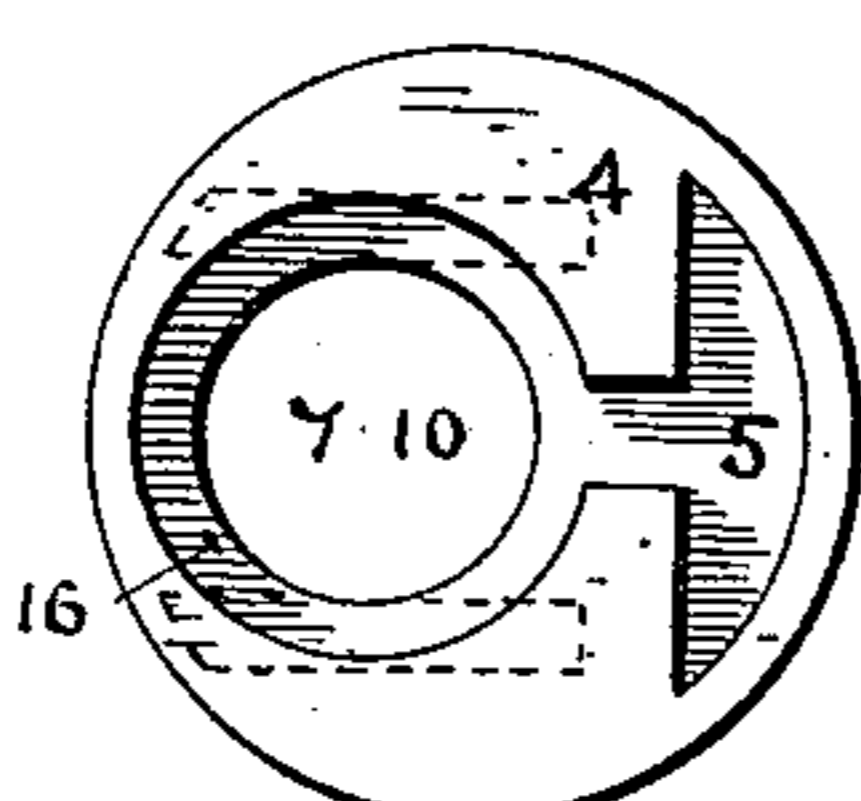


FIG. 9.

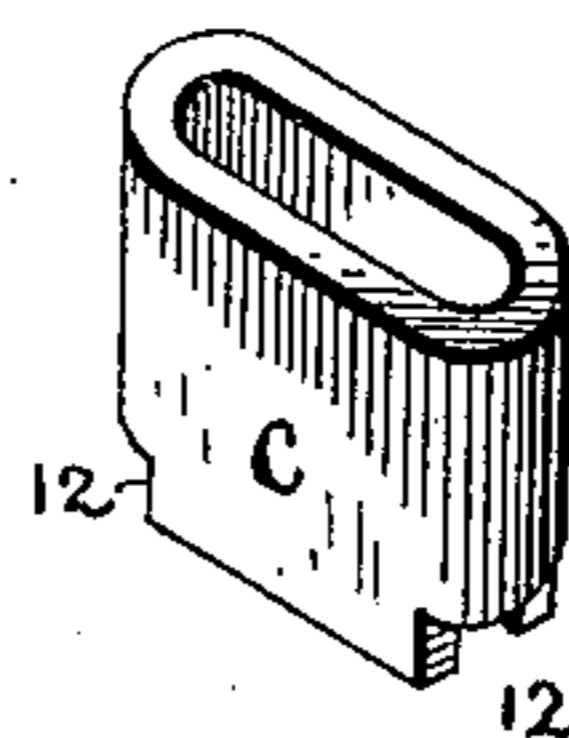


FIG. 11.

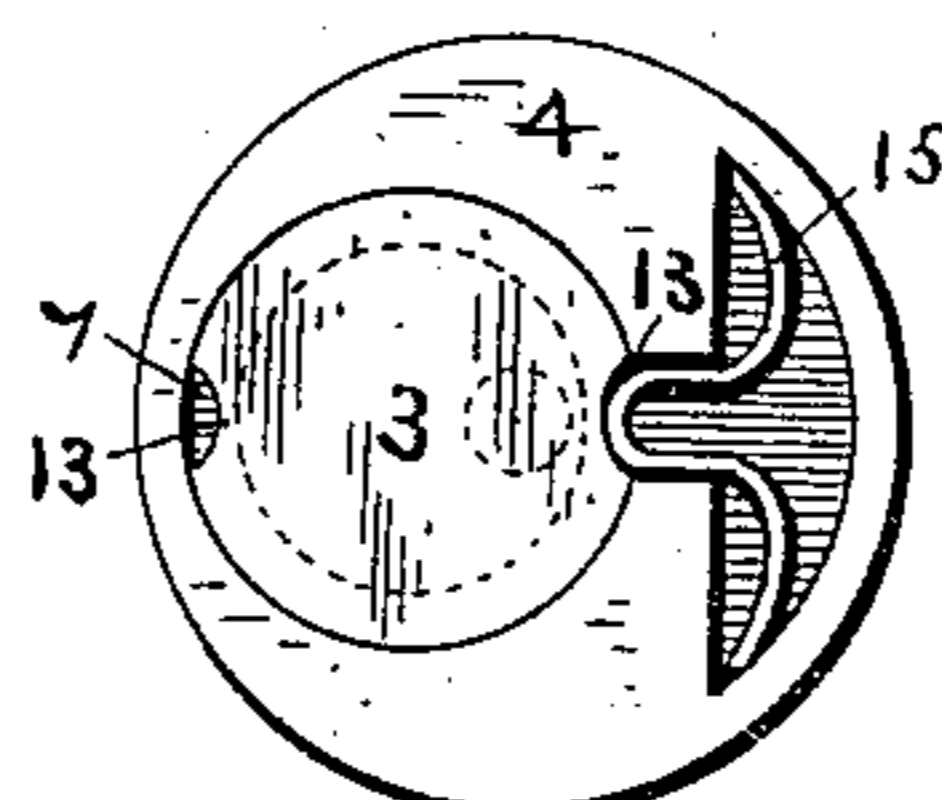


FIG. 12.

WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM APPLETON, OF ATTLEBOROUGH, MASSACHUSETTS, ASSIGNOR TO
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BUTTON.

SPECIFICATION forming part of Letters Patent No. 370,441, dated September 27, 1887.

Application filed July 2, 1887. Serial No. 243,220. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM APPLETON, of Attleborough, Bristol county, State of Massachusetts, have invented a new and useful
5 Improvement in Buttons or Studs; and I do hereby declare the following specification, taken in connection with the accompanying drawings, forming a part of the same, to be a description thereof.

10 This invention relates to a button or stud having a post portion which is adapted to remain stationary in the button-holes, a shoe portion which is arranged to slide laterally on said post, and a head which is capable of being
15 turned to move the shoe and cause it to assume positions eccentric to the head, that the button or stud may be the more easily applied and removed, and concentric with the head, that the article may be securely retained
20 in position.

The improvement consists in certain features of construction and arrangement, hereinafter described and claimed.

In the accompanying drawings, Figure 1
25 represents a sleeve-button embodying the invention, with the shoe in a position eccentric to the head. Fig. 2 shows a similar view with the shoe concentric with the head. Fig. 3 represents a central vertical section on line $z z$,
30 Figs. 4 and 6. Fig. 4 shows a rear view of the button with the shoe shell or covering removed. Figs. 5 and 6 show, respectively, horizontal sections on lines $x x$ and $y y$, Figs.
35 1 and 2. Figs. 7, 8, and 9 show details of the shoe. Fig. 10 represents the stem and its plate, which are secured to the button-head to produce the movements of the shoe. Fig. 11
40 shows the post portion in perspective. Fig. 12 shows in plan a modification of the means for locking the shoe in position.

A is the button-head, which may be of any preferred form, design, or material.

45 B is the shoe of the button, and C is the post portion, which is to remain stationary in the button-holes when the shoe is slid by a partial rotation of the head A.

To the head A a stem, 2, is secured, which bears at its free end a plate, 3, of circular form, the stem being attached to the plate near the
50 edge of the latter or concentric thereto, as shown

in Figs. 3, 5, and 6. The shoe B is mainly composed of a plate, 4, a plate, 5, and a shell or covering, 6. The plate 4 has a circular opening, 7, of the same diameter as the plate 3, for which it forms a peripheral bearing; and
55 said plate is cut away at 8 and 9 to accommodate the fastening device, as shown in Figs. 4 and 7. The plate 5 has an opening, 10, of smaller diameter than the opening 7 in the plate 4, as shown in Figs. 8 and 9. The plate 5
60 is also provided with two lugs or guides, 11 11, arranged parallel with each other, as shown by full lines in Figs. 5 and 6 and by dotted lines in Figs. 8 and 9. The post C is in the form of a flattened tube, which surrounds and
65 hides the stem 2, and its lower end is fitted between the guides 11, said end being preferably notched at 12, if the edges of the post be rounded, as shown in Fig. 11, or otherwise arranged to prevent the shoe from turning on
70 the post by the engagement of the latter with the guides 11. For locking the shoe in its two positions, the plate 3 is preferably notched at 13, and a block, 14, located in the opening 8,
75 is pressed by a spring, 15, located in the opening 9, against the edge of the plate 3 and into the notches 13, when they present themselves, thereby holding the shoe in the two positions shown in Figs. 5 and 6.

In assembling the parts the plates 4 and 5 are
80 secured to each other, and the stem 2 is passed through the openings 7 and 10, so that the plate 3 shall occupy the opening 7, the said plate 3 resting on the ledge 16, Fig. 9, formed by that portion of the plate 5 which surrounds
85 the hole 10. The locking-block 14 and spring 15 are then placed in position, and the shell 6 is secured to the plates 4 and 5 by turning the edges of the shell over upon the plate 5, as shown in Fig. 3. If the shell 6 be rounded on
90 its back, a plate, 17, is preferably interposed between the shell and the plate 4, as shown in Fig. 3, the better to hold the plate 3 in the opening 7. The hollow post C is now passed over the stem 2, and the lower end of the post
95 is inserted between the guides 11, and the upper end of the stem is secured to the button-head.

When the shoe B is in a position eccentric to the post C, as in Figs. 1 and 5, the button can
100

be easily applied and removed, as will be readily understood. By turning the head in either direction for half a revolution its attached stem 2 and the plate 3 will be rotated, 5 the stem passing in a semicircular path from the position shown in Fig. 5 to that shown in Fig. 6. As the post C is held stationary by the button-holes, and the guides 11 by engagement with the post prevent the shoe from turning 10 thereon, the shoe will be slid laterally from the eccentric position shown in Figs. 1 and 5 to the central position shown in Figs. 2 and 6, so as to hold the button in place in the cuff.

When the shoe is in either an eccentric or a 15 concentric position, the locking-block 14 will engage a notch, 13, in the plate 3 and hold the shoe in such position.

To remove the button the head is turned half a revolution, so the shoe will be moved 20 to the eccentric position shown in Figs. 1 and 5, when the cuff may be readily passed off the post over the shoe.

In place of using a locking device composed of a block, 14, and spring 15, as already described, the opening may be bent, as shown in 25 Fig. 12, to engage the plate 3, and the block 14 be dispensed with.

What I claim, and desire to secure by Letters Patent, is—

1. The combination, with the head provided 30 with an attached stem having a circular plate secured eccentrically thereto, of a shoe furnished with a bearing fitting the stem-plate peripherally, an oblong post surrounding the stem, guides on the shoe, on which the lower 35 end of the post is mounted and on which the shoe is adapted to slide with relation to the post when the head is turned, as described, and means, substantially as described, located in the shoe for locking the same in position, 40 substantially as set forth.

2. The combination, with the head having a stem, 2, attached thereto and provided with a circular plate, 3, having notches 13, of a shoe having a plate, 4, cut away at 8 and 9 and 45 furnished with an opening, 7, fitting the plate 3, a plate, 5, having an opening, 10, and guides 11, the flattened tubular post C, surrounding the stem and fitted to the guides, and the locking-block 14 and spring 15, located in the shoe, 50 substantially as and for the purposes specified.

WILLIAM APPLETON.

Witnesses:

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NELLIE A. COOPER.