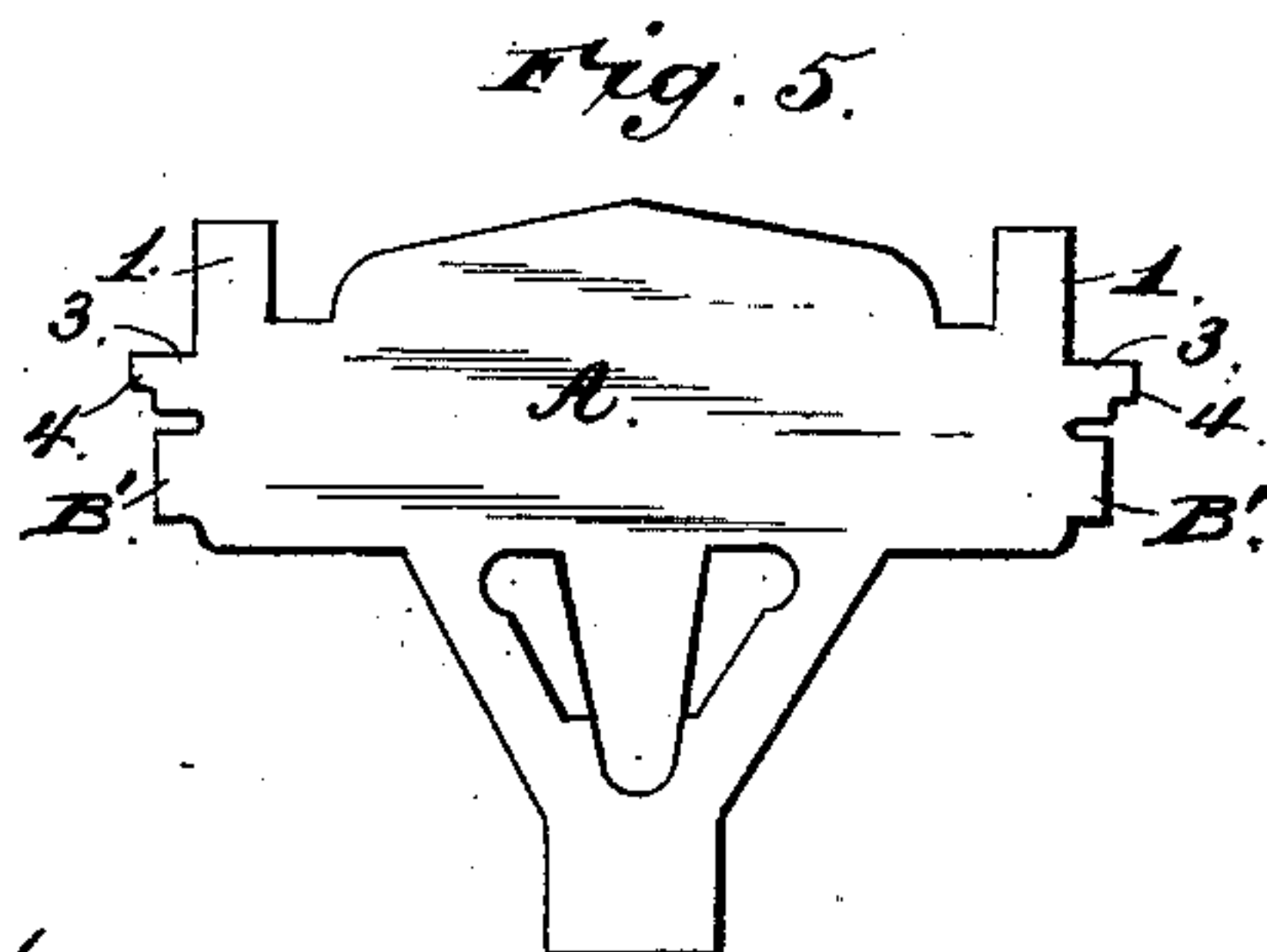
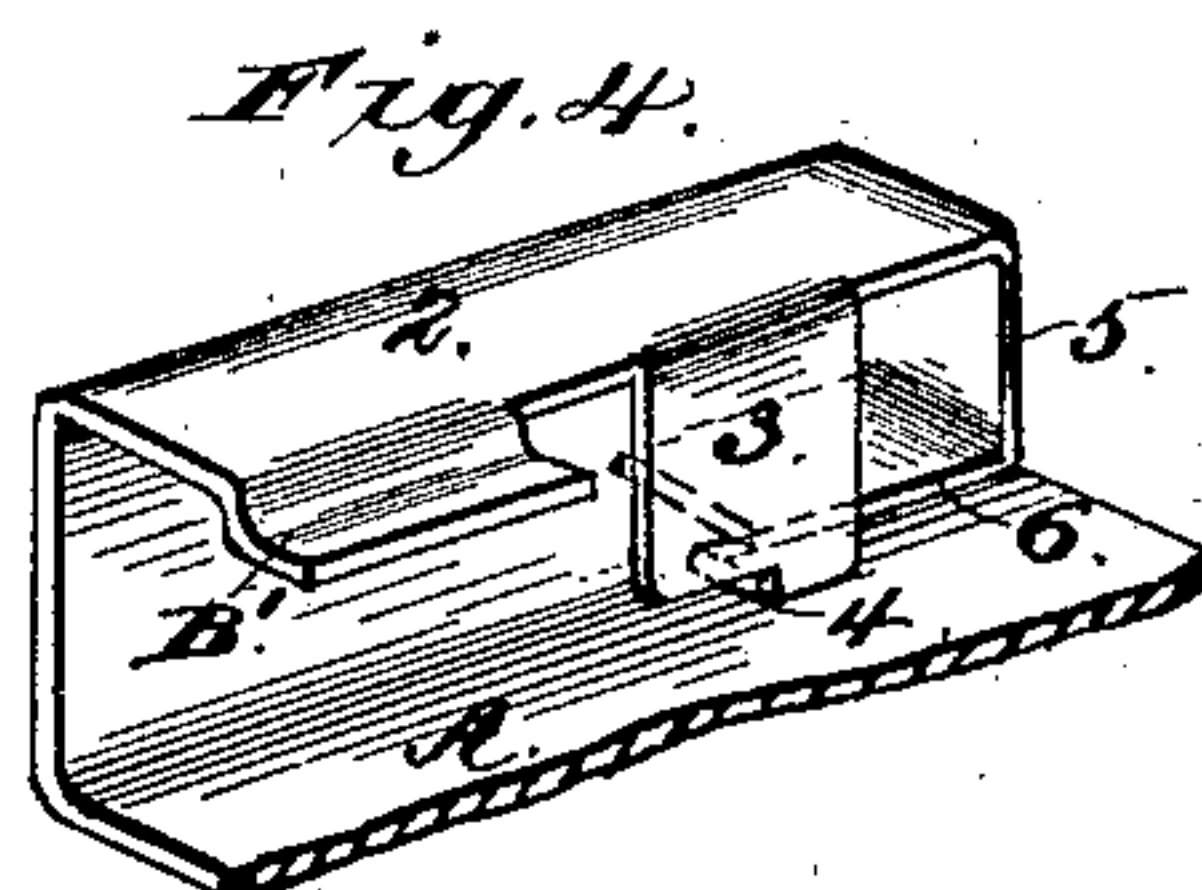
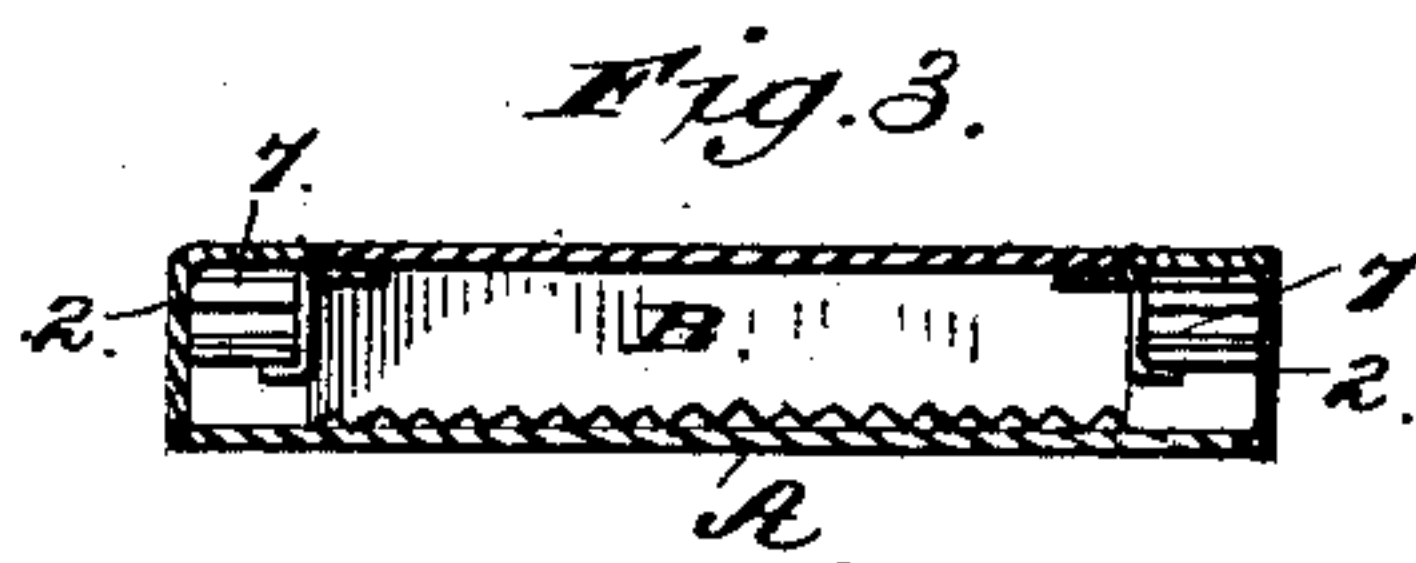
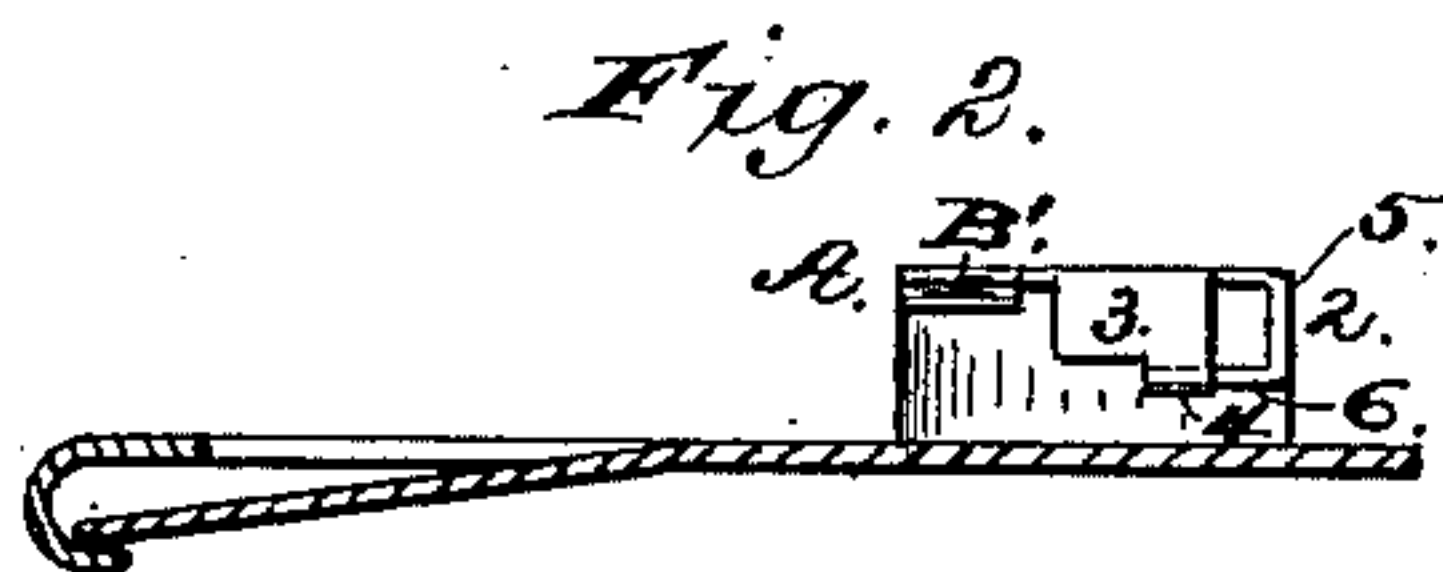
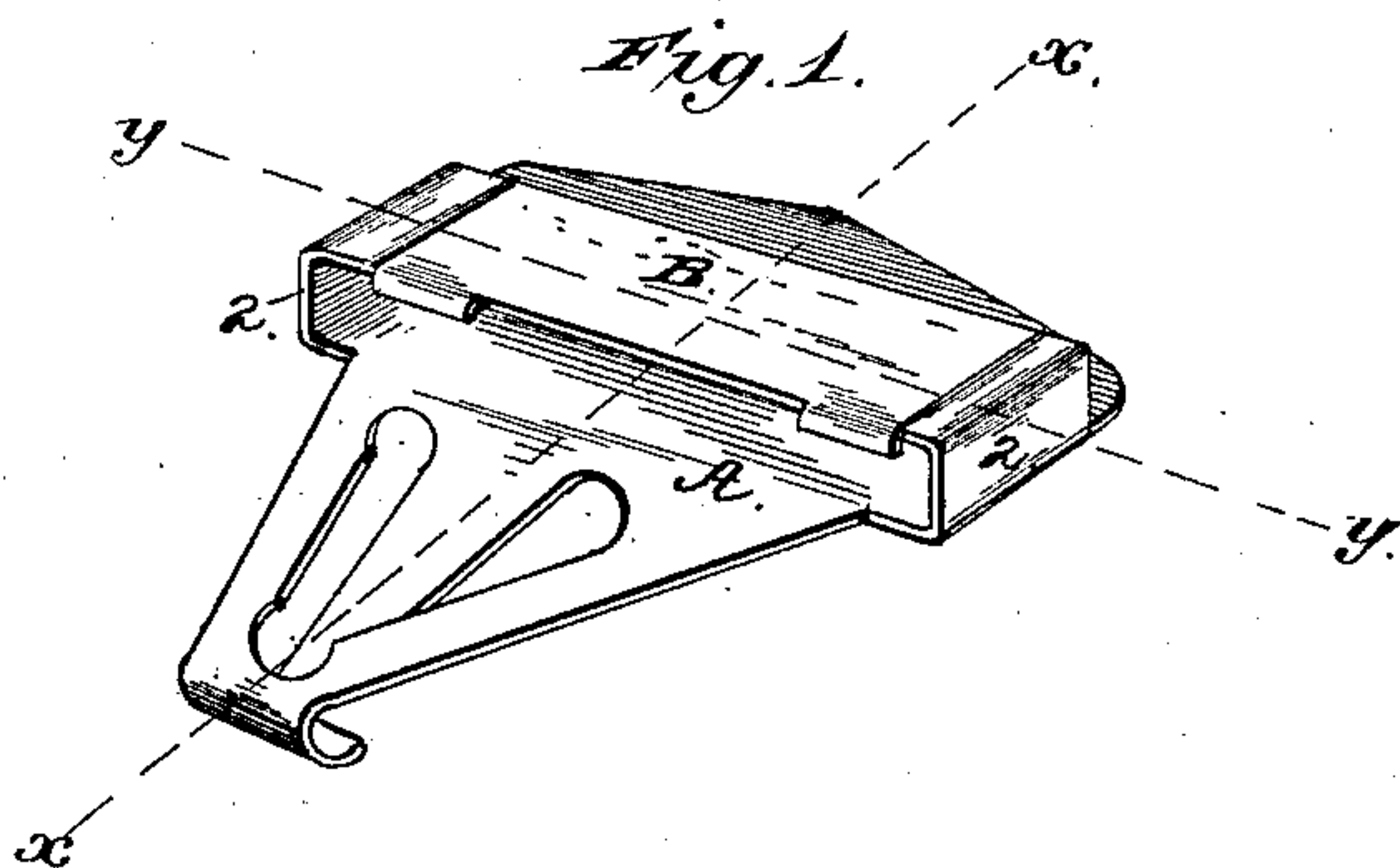


(No Model.)

W. E. SMITH.  
SUSPENDER BUCKLE.

No. 359,185.

Patented Mar. 8, 1887.



Witnesses:  
Geo. W. Roberts.  
Howard A. Knapp.

Inventor:

William E. Smith

# UNITED STATES PATENT OFFICE.

WILLIAM E. SMITH, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE  
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## SUSPENDER-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 359,185, dated March 8, 1887.

Application filed January 17, 1887. Serial No. 224,561. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. SMITH, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Suspender-Buckles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to suspender-buckles, and particularly to that class thereof known as "flat-back" buckles; and it consists in a novel construction and arrangement of the parts thereof, which will be more fully hereinafter described, and pointed out in the claims.

My present invention relates to an improvement on Patent No. 337,452, granted to me March 9, 1886; and it consists, especially, in a particular construction of the tongue-connection to the body of the buckle.

One object of my invention is to provide a suspender-buckle having a smooth back which is provided with a connection or bearing for the trunnions of the tongue, which is constructed of square configuration, thereby dispensing with the lapped construction around said trunnions, as has heretofore been the well-known and common form of connection.

A further object of my invention is to provide a suspender-buckle which is simple and effective in its construction and operation, neat and attractive in its appearance, and economically and cheaply manufactured.

I attain these objects by the form of buckle illustrated in the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, and in which—

Figure 1 is a perspective view of my improved buckle. Fig. 2 is a transverse vertical section on the line *x x* of Fig. 1. Fig. 3 is a longitudinal vertical section on the line *y y* of Fig. 1. Fig. 4 is a perspective view, on an enlarged scale, of one of the ends of the buckle, looking toward the inside, and showing the manner of forming the square bearing or attaching connection for the tongue-trunnions. Fig. 5 is a detail view, in elevation, of the blank.

In my patent aforesaid the formation of the buckle-body A is similar to the one shown in

the accompanying drawings, being provided with the bent-up ends, having the re-entering depressed folds and the rectangular-shaped tongue.

In my present invention the blank, as shown in Fig. 5, is formed with two posts, 1 1, integral with the end folds, 2 2, on their upper edges, as shown. Re-entering folds 3, having lugs 4, are formed on the edge of the blank and adapted to be turned on the inside of the end folds. As shown on an enlarged scale in Fig. 4, the end folds, 2, are bent up in the usual form, the posts 1 and the re-entering folds 3 extending outward therefrom at an angle, the re-entering folds B' having been previously bent into shape, as shown. The posts 1 are then bent downward to form vertical depending walls 5 at right angles to the top portions of the folds 2, and thence bent at right angles from the wall 5 and under the bent-over portions of the folds 2 to form horizontal base-walls 6. The re-entering folds 3 are then bent vertically downward from the inside edges of the folds 2, the lugs 4 being bent under and at right angles to the folds 3. These depending re-entering folds 3, with their lugs 4 bent under, as described, form supports for the inner end of the horizontal wall 6, the said walls bearing directly upon the lugs 4. By this construction a square bearing or connection for the reception of the trunnions 7 of the tongue B is formed. By this form of buckle a free and easy hinged motion is allowed between the tongue B and the square bearings formed by the bending of the posts 1, as described and illustrated.

The re-entering fold 3 not only acts as a support for the lower base-wall of the said square bearing through the medium of the bent-under lug 4 thereof, but at the same time extends across part of the inner open side of the bearing to such an extent as to provide a vertical bearing-edge for the trunnions 7 of the tongue B, and also provide a suitable rest for the requisite leverage of said tongue in its movement when opened and shut.

By means of my improved square form of bearing the usual lapped construction is avoided, as the trunnions in my form of buckle do not bear against all of the sides at one and the same time. Friction and consequent wear



between the said parts are thereby avoided, and, if occurring at all, in a decreased amount, and a positive and effective result is thus attained in general usage.

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

1. In a suspender-buckle, the combination, with the buckle-body having bent-up end  
10 folds, of posts formed therewith and bent under the same to form square bearing-surfaces or connections for the trunnions of the tongue, and re-entering folds provided with bent-under lugs supporting the base-wall of said bearing,  
15 substantially as described.

2. In a suspender-buckle, the combination, with the buckle-body A, having bent-up end

20 folds, 2 2, provided with depressed re-entering folds, of posts 1 1, formed with the folds 2 and bent to form a square bearing for the tongue- trunnions 7, and having vertical and horizontal walls 5 and 6, a re-entering fold, 3, having bent-under lugs or projections 4, which support the lower or base walls, 6, of the bearing, and a tongue, B, having trunnions engaging  
25 with said square bearings, substantially as described.

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

WILLIAM E. SMITH.

Witnesses:

GEO. W. ROBERTS,  
HOWARD H. KNAPP.