

(No Model.)

H. B. SARGENT.  
SHELF BRACKET.

No. 561,242.

Patented June 2, 1896.

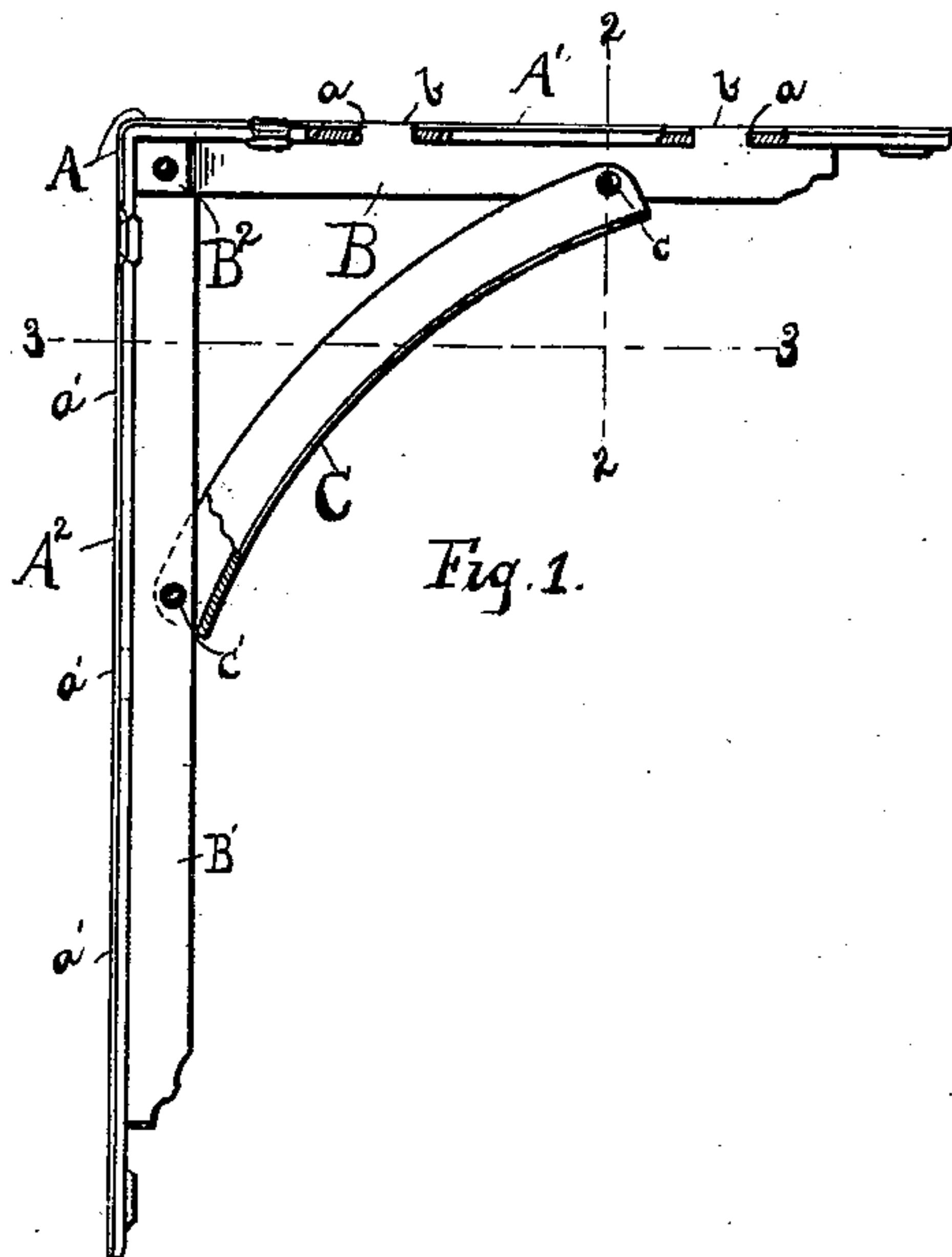


Fig. 2

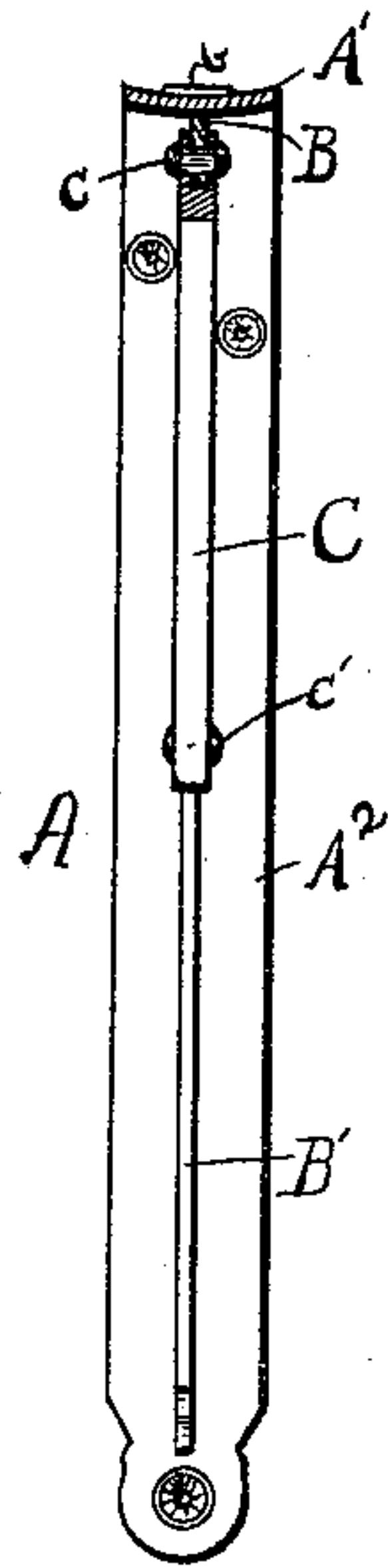


Fig. 3.

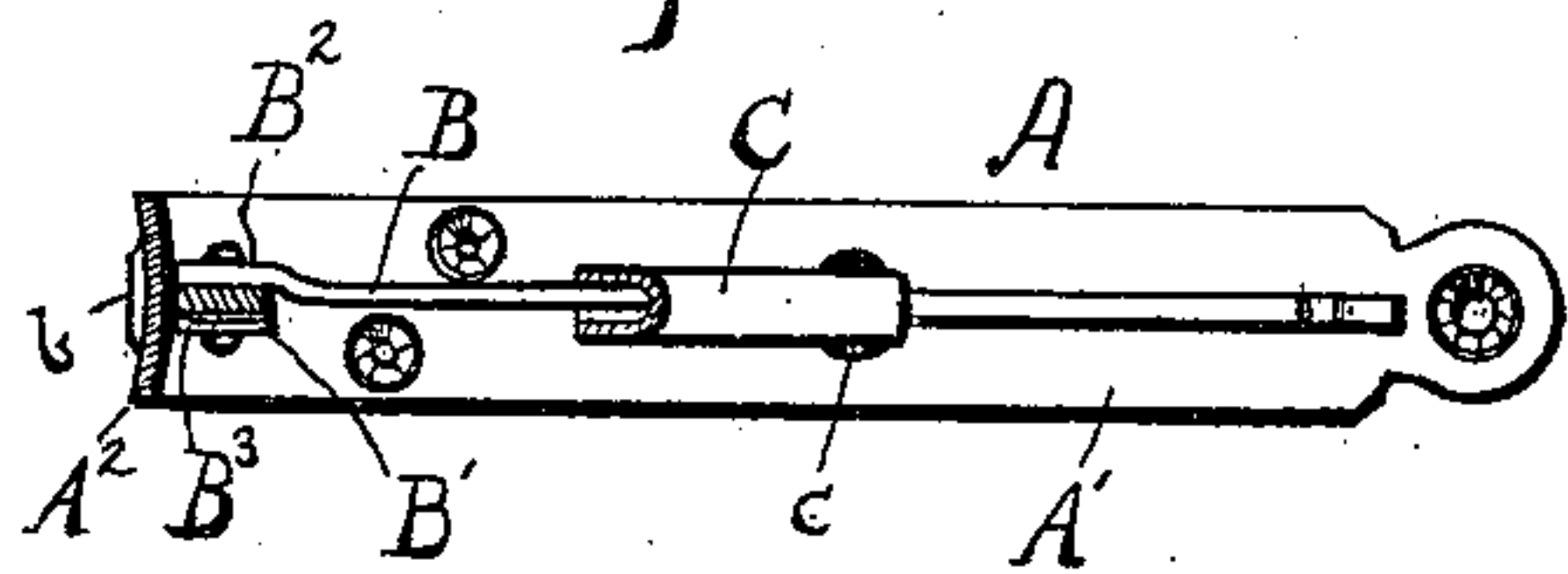


Fig. 4.

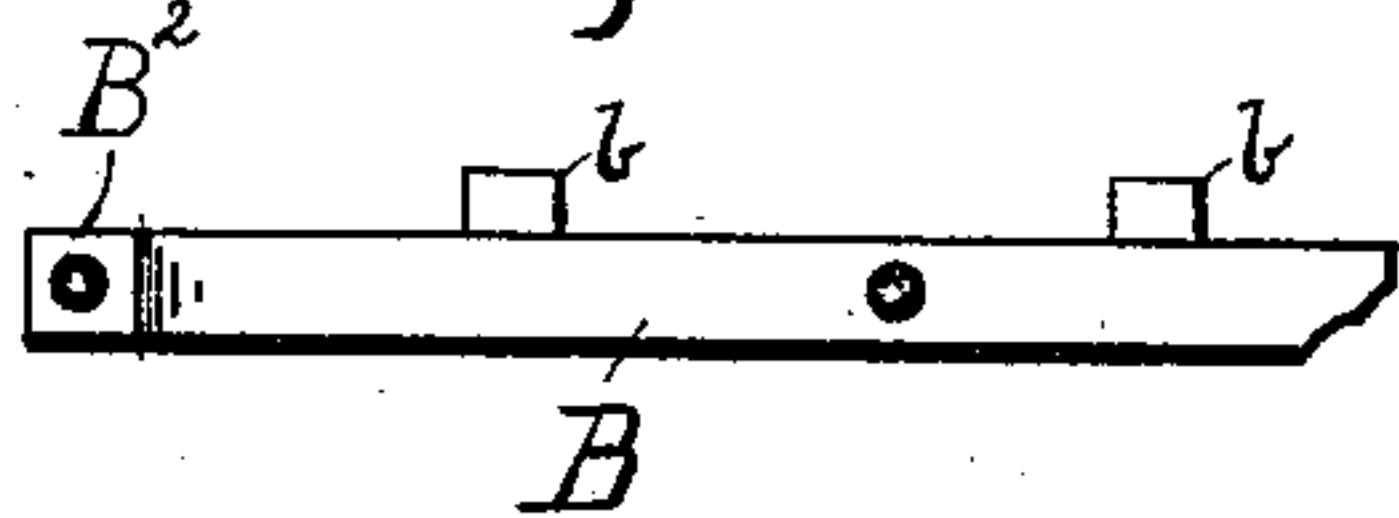
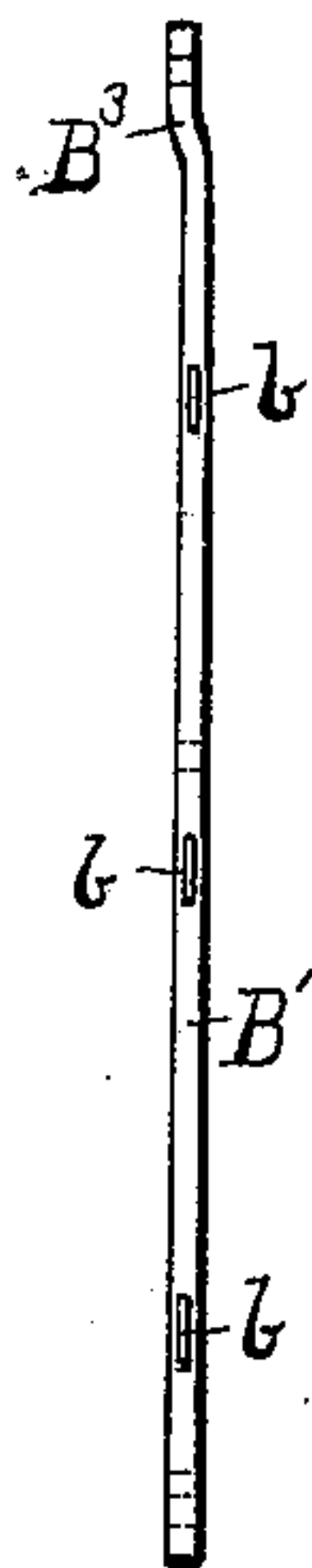


Fig. 5.



WITNESSES:

*Philip T. Farnsworth*  
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his ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HENRY B. SARGENT, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE  
SARGENT & COMPANY, OF SAME PLACE.

## SHELF-BRACKET.

SPECIFICATION forming part of Letters Patent No. 561,242, dated June 2, 1896.

Application filed November 23, 1895. Serial No. 569,925. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY B. SARGENT, a citizen of the United States, and a resident of the city of New Haven, county of New Haven, State of Connecticut, have invented a new and useful Improvement in Shelf-Brackets, which is fully set forth in the following specification, taken in connection with the drawings, which form a part thereof, and in which like letters of reference represent like parts in all figures, and in which—

Figure 1 is a side elevation of the bracket embodying my invention, partly in vertical section. Fig. 2 is a vertical section on the line 2 2 of Fig. 1. Fig. 3 is a horizontal section on the line 3 3 of Fig. 1. Fig. 4 is a side elevation of the horizontal rib, and Fig. 5 is an elevation of the vertical rib.

My invention relates to shelf-brackets, and has for its object the production of a simple, strong, light, and durable bracket with the minimum expenditure of labor in the assembling of the parts, which are so constructed as to make a material saving in the cost of manufacture. To accomplish this object a bracket is formed rectangular in shape. Ribs are secured thereto in a simple but effective manner, and a brace of simple construction strengthens the whole. These parts are assembled without the necessity of springing the bracket or such other complicated methods as have been heretofore employed.

In the bracket embodying my invention, as shown in the drawings, A represents the body of my bracket, consisting of a single strip of wrought metal slightly concaved and bent transversely at right angles between its extreme ends, so as to form a shelf-plate A' and a wall-plate A<sup>2</sup>. The shelf and wall plates are provided with the usual perforations for the reception of fastening-screws, as shown in Figs. 2 and 3. The shelf-plate A' has the lug-perforations *a* on its central line, and the wall-plate A<sup>2</sup> similar perforations *a'*.

The brace for this bracket is formed of three parts—two ribs B B' and a brace proper, C—riveted together.

B and B' represent ribs, each consisting of a strip of wrought metal, one end of which is bent slightly from the line of the remaining

portion of the strip, each having on one edge tenons or lugs *b*, as shown in Figs. 4 and 5.

C is a brace consisting of a piece of wrought metal which is folded over on a central longitudinal line, making the piece U-shaped in cross-section, as shown in Figs. 2 and 3.

In assembling the parts the lugs *b* on the rib B are inserted through the lug-perforations *a* of the shelf-plate A' and hammered down to secure the rib to the plate. The end B<sup>2</sup> of said rib being right-angled fits against the back of the wall-plate A<sup>2</sup>, as shown in Fig. 1. The rib B' is secured to the wall-plate A<sup>2</sup> in a similar manner by means of the lugs *b*, the end B<sup>3</sup> of said rib fitting against the shelf-plate A' and overlapping the end B<sup>2</sup> of the rib B. In this position the overlapping ends are riveted together. Each end being perpendicular to the length of the rib bears upon the portion of the bracket to which the rib is not attached. By this arrangement the two ribs together form a brace which may easily be secured to the bracket without the springing of the body of the bracket in the assemblance of the members or the necessity of peculiar-shaped lugs or lug-perforations.

Owing to the peculiar U shape of the brace proper, C, the ends may be readily fitted over the ribs B and B' and secured thereto by rivets *c* and *c'*. The point of union of the brace and the ribs is here shown at about the middle of the lengths of the ribs, but may be at any suitable point which will most effectually strengthen the bracket. By this construction of parts the labor of assembling the members is reduced to a minimum, all that is required being the fitting of the ribs to the plates, turning down the lugs, and riveting the ribs and brace together. When so assembled, a bracket is produced which is strong, durable, and simple; and therefore

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

In a wrought-metal shelf-bracket, the combination of wall and shelf plates, slightly concaved and consisting of a continuous strip of sheet metal bent transversely at a right angle, two separate ribs, each of a single piece of metal one with one edge abutting against and secured to said wall-plate, the other with one



edge abutting against and secured to said shelf-plate, the inner ends of said ribs being perpendicular to the lengths thereof, and arranged to overlap and be riveted to each other  
5 in the right angle formed by said wall and shelf plates, and a U-shaped brace formed of a strip of sheet metal folded longitudinally, the ends thereof fitting over and being riveted to said ribs, substantially as described.

In witness whereof I have hereunto set my hand, at New Haven, in the county of New Haven, State of Connecticut, this 20th day of November, 1895.

HENRY B. SARGENT.

Witnesses:

H. HOWARD WEST,  
CHARLES L. BALDWIN.