

No. 607,890.

Patented July 26, 1898.

J. S. SMITH.  
BOOK SUPPORT.

(No Model.)

(Application filed Aug. 21, 1897.)

2 Sheets—Sheet 1.

Fig. 1.

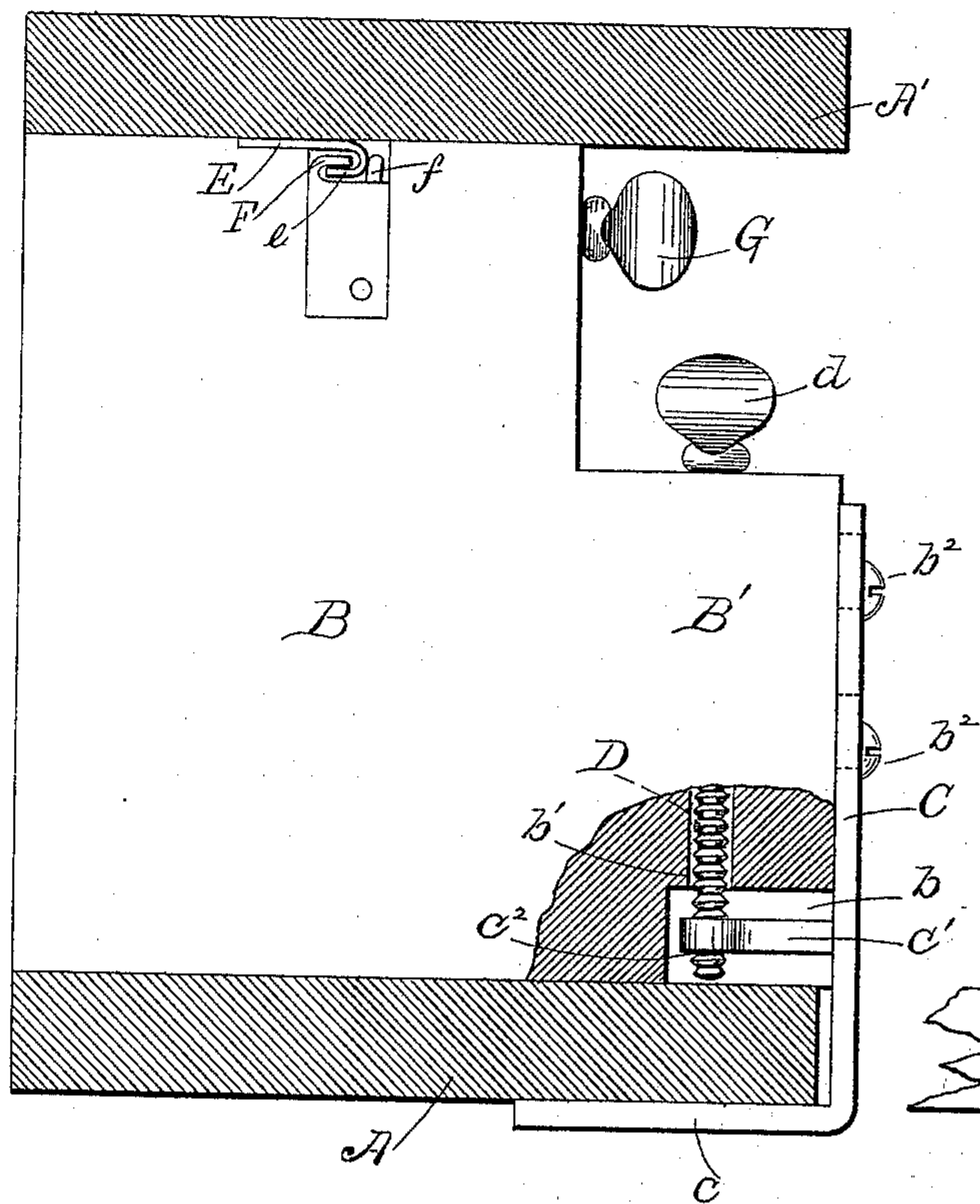


Fig. 2.

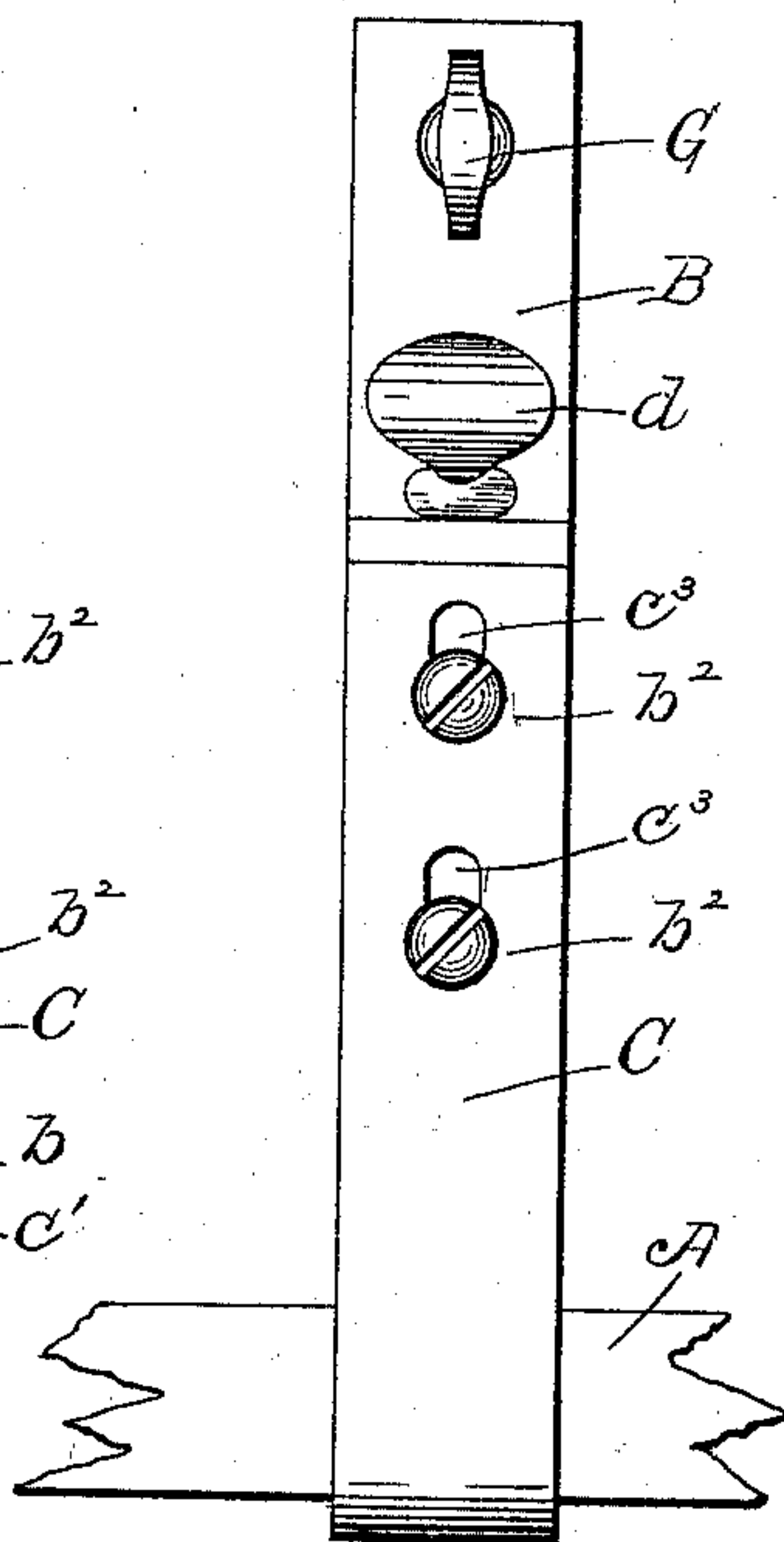


Fig. 3.

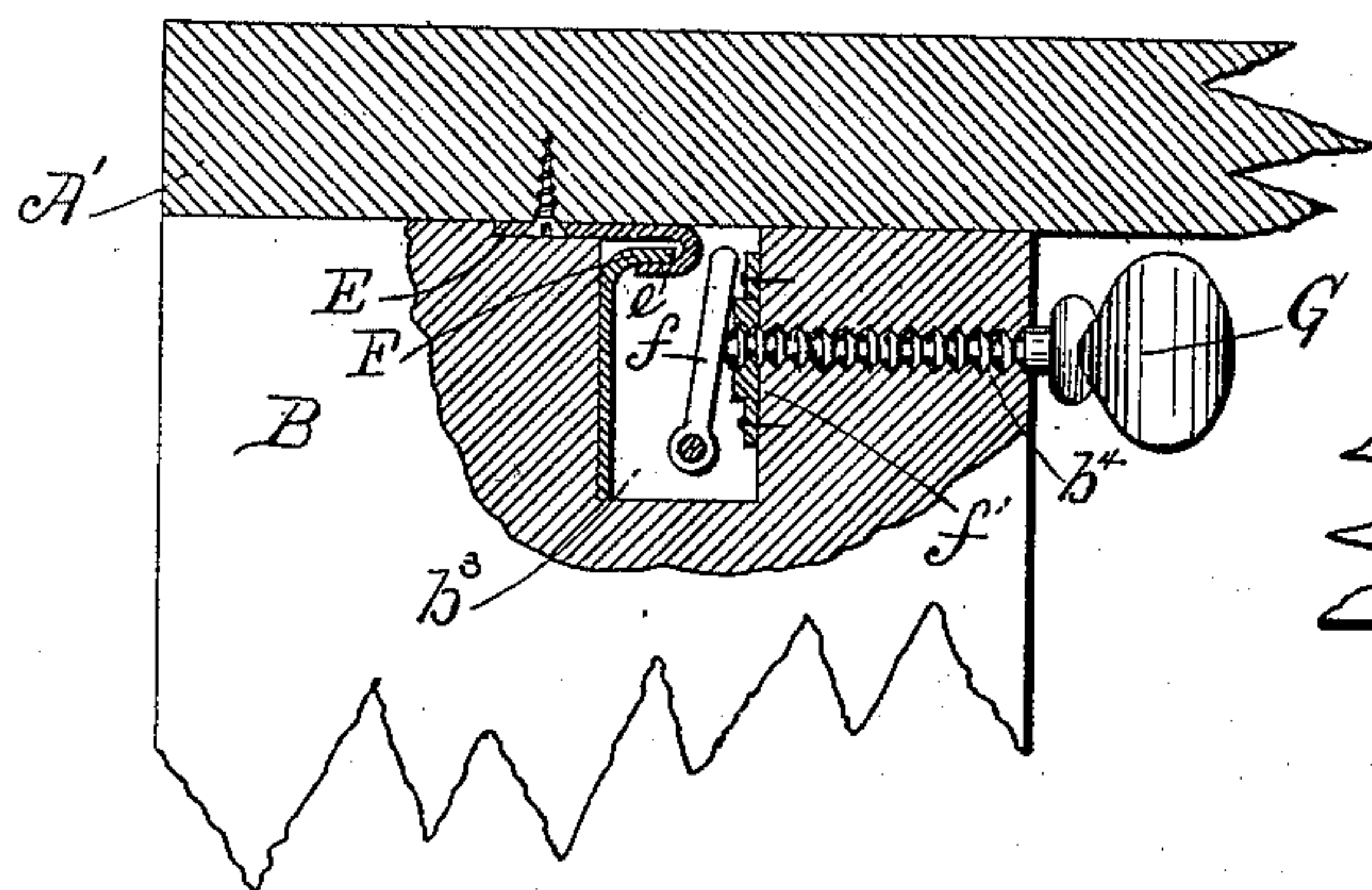
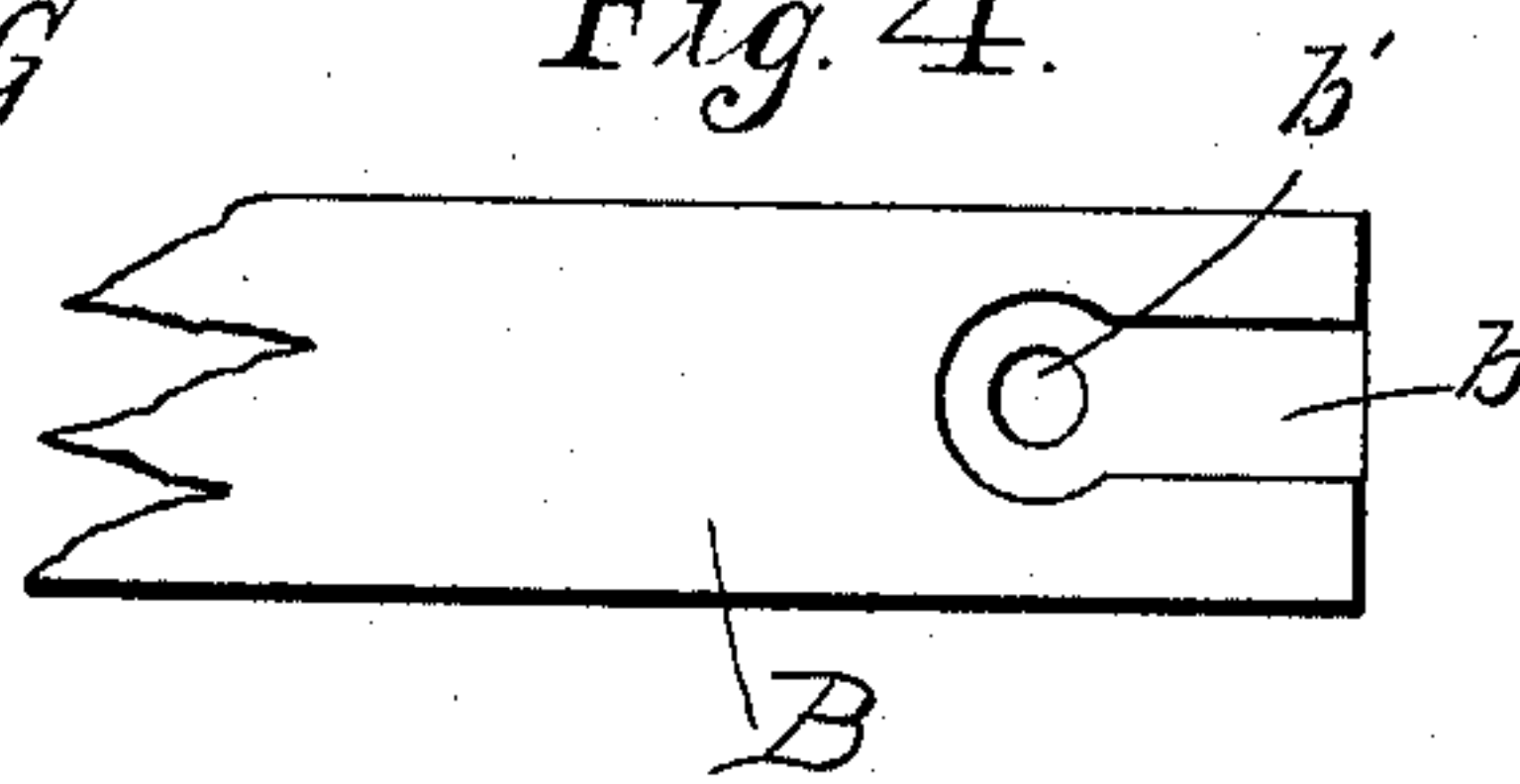


Fig. 4.



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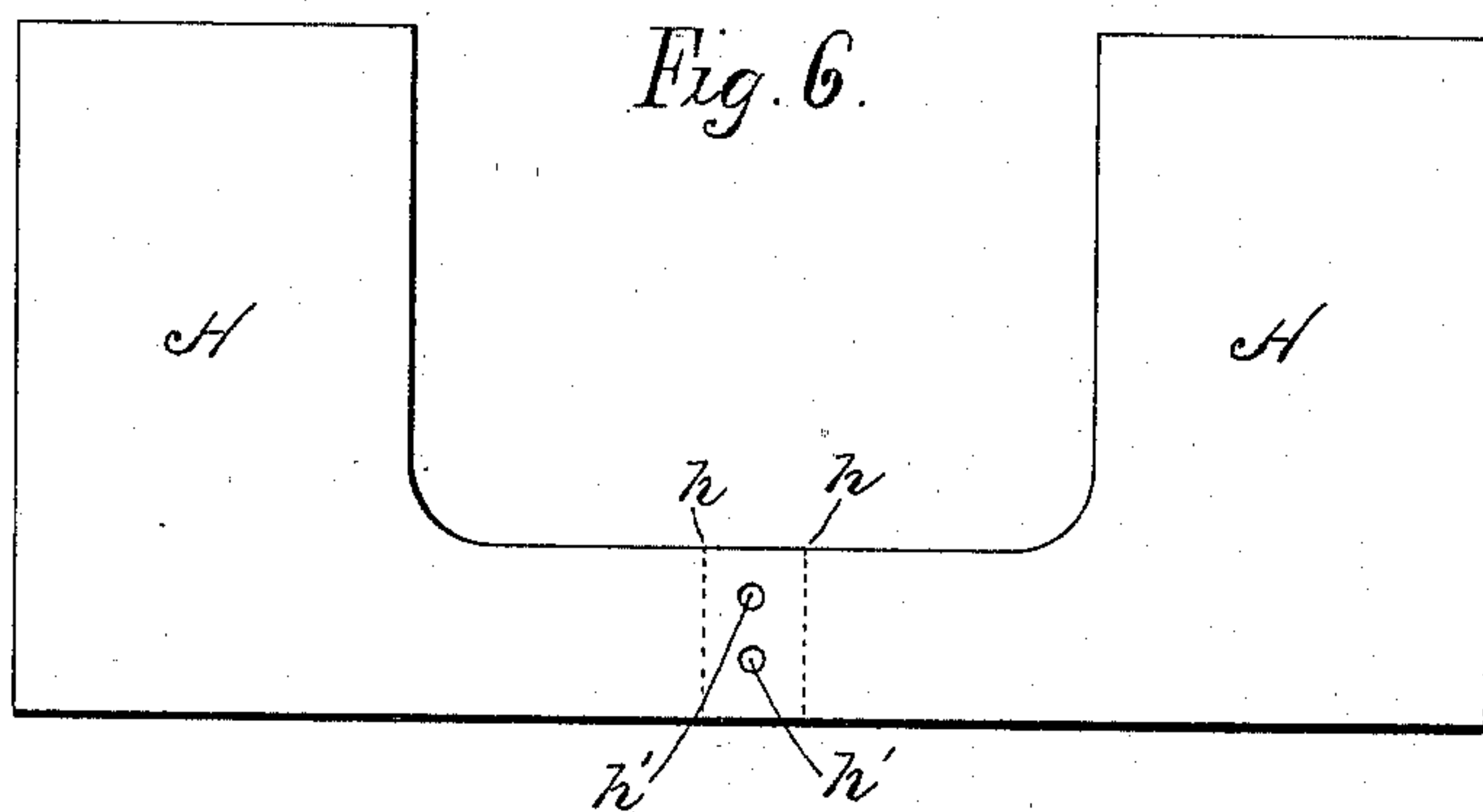
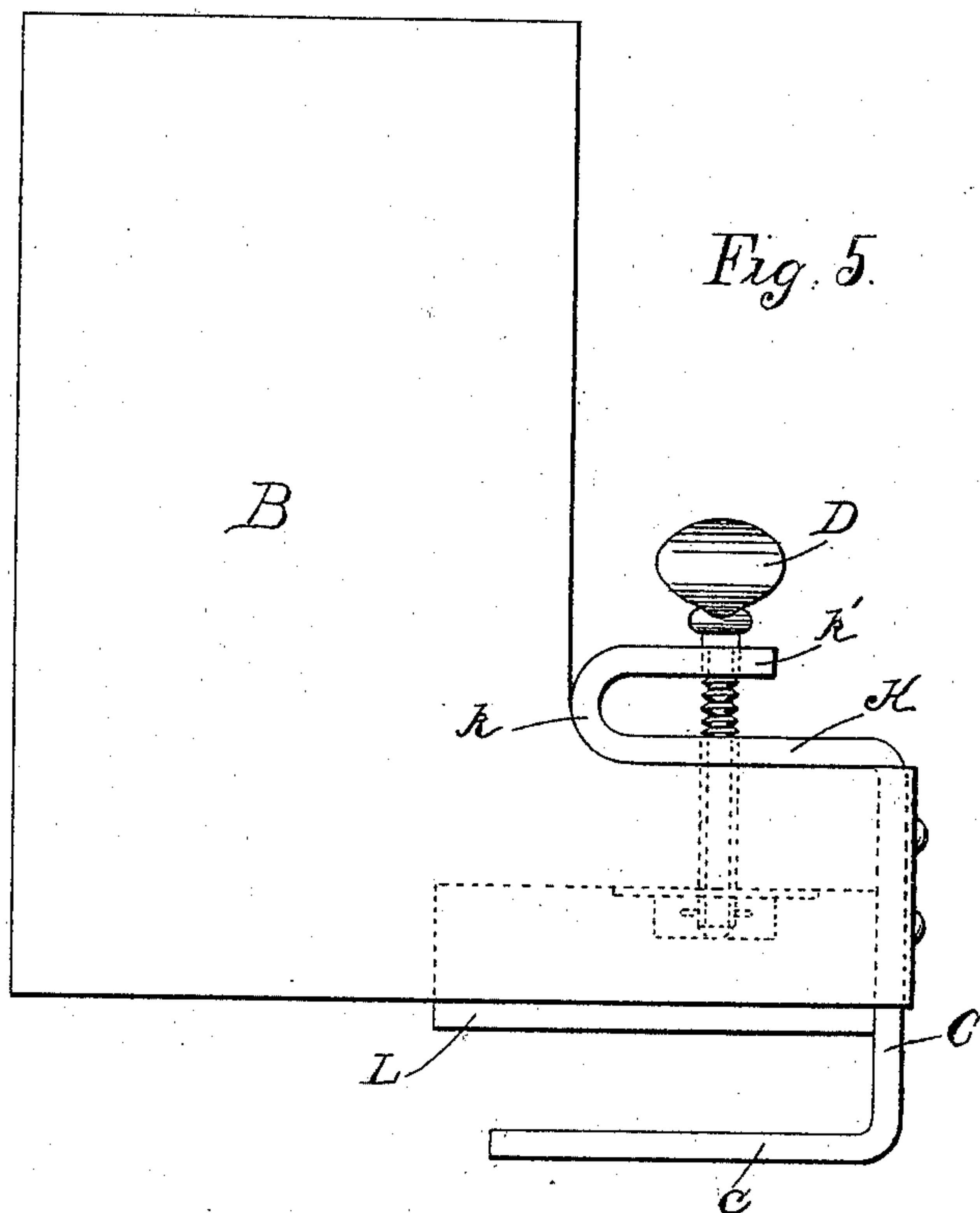
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2 Sheets—Sheet 2.



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# UNITED STATES PATENT OFFICE.

JOEL SUMNER SMITH, OF NEW HAVEN, CONNECTICUT.

## BOOK-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 607,890, dated July 26, 1898.

Application filed August 21, 1897. Serial No. 649,075. (No model.)

*To all whom it may concern:*

Be it known that I, JOEL SUMNER SMITH, a resident of the city and county of New Haven, in the State of Connecticut, have invented a new and useful Improvement in Book-Supports, of which the following is a full, clear, and exact description when taken in connection with the accompanying drawings, which form a part thereof, and in which—

Figure 1 is a side elevation of a support embodying my invention, partly broken away; Fig. 2, an end view of the support; Fig. 3, a vertical section of the top of the support, and Fig. 4 a bottom view of a part of the support.

In all figures similar letters of reference designate like features.

This invention relates to book-supports, and has for its object the novel construction of a simple, effective, upright support adapted to be attached to shelves for holding the books placed thereon in their proper position.

In the drawings, A and A' represent sectional views of shelves for books to which the supports are adapted to be attached.

B, Fig. 1, is a thin block of wood or other suitable material for forming the support, which is provided with an extension B', having a slot or recess b in its under side and a vertical screw-hole b'.

A metal frame (the upright portion being designated by the letter C) is provided with horizontal arms c and c', the latter having a screw-threaded perforation c<sup>2</sup>. Near the top of the main portion of the frame C are two vertical slots c<sup>3</sup>, and when the support B is affixed to the frame C screws b<sup>2</sup> are adapted to extend through the slots c<sup>3</sup> into the extension B', allowing the support a limited vertical play on the frame while securing them together. When the support B and frame C are so united, the arm c' extends into the slot b in the support, (in which it is capable of vertical movement,) so that the perforation c<sup>2</sup> and hole b' correspond.

A set-screw D extends from the top of the extension B' through the hole b' and is screwed into the perforation c<sup>2</sup> in the arm c'.

In operation the lower arm c of frame C is adapted to fit on the under side of the shelf A, Fig. 1, and the lower edge of the support B rests on the upper edge of the shelf. The support and frame are adjusted to bind the

shelf between them by the set-screw D, which when screwed into the arm c' of the frame C forces the block B downward by its head d bearing on the upper edge of the extension B, the block sliding on the frame C by means of the limited play allowed the screws b<sup>2</sup> in the slots c<sup>3</sup> and the arm c' in the slot b.

It may also be desired to secure the top of the support to the upper shelf A', and it is provided that a metal way or channel E, (shown in cross-section in Fig. 3,) having a horizontal flange e, may be attached to the under side of the shelf A'. A metal flange F is affixed to the top of the support B, while in a slot b<sup>3</sup> in the support a latch or lever f is pivoted to swing in a vertical plane. A horizontal screw-hole b<sup>4</sup> extends through the support B, and in the slot b<sup>3</sup> is seated a metal nut f', the hole of which corresponds to the end of the hole b<sup>4</sup>. A set-screw G projects through the hole b<sup>4</sup> and engages with the nut f'.

When it is desired to secure the support to the shelf A', the flange F is engaged on the flange e of the channel E in such a manner that the end of the latch f will be on the opposite side of the metal way E. By screwing the set-screw into the nut f' the end bears against the latch f, turning it on its pivot until it comes in contact with metal way E and binds it with the flange F, Fig. 1.

The modification shown in Fig. 5 consists in forming the support proper of sheet metal. The blank H, Fig. 6, is formed and bent at right angles on the dotted lines h to form the support. Holes h' are provided for rivets or screws, which secure the support to the frame. The frame in this construction varies somewhat from that described above. The upper arm K extends from the upper end of the upright portion C of the frame and is turned back on itself at k to form the part k'. Screw-holes in the arm K and part k' are adapted to receive the set-screw D, the lower end of which is connected to a block L in well-known manner. By turning the set-screw D up or down the block L is raised or lowered to bind or loosen the shelf A with the lower arm c of the frame C.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—



1. In a book-support, the combination with a frame, having an arm adapted to fit against the book-shelf; of a support adapted to fit against the opposite side of the book-shelf, 5 mounted on said frame and capable of a limited vertical play thereon; and means for holding said support in its adjusted position on said frame; substantially as described.

2. In a book-support, the combination with 10 a frame, having an arm adapted to fit against the book-shelf; of a support adapted to fit against the opposite side of the book-shelf, mounted on said frame and capable of a limited vertical play thereon; and a set-screw 15 engaging said frame and support to lower and raise the one on the other; substantially as described.

3. In a book-support, the combination with a frame, having an arm adapted to fit against 20 the book-shelf and a second arm on the opposite side of the shelf; of a support adapted to fit on said shelf, mounted on said frame and capable of a limited vertical play thereon; and a set-screw engaging with said second 25 arm and said support to raise and lower the one on the other, substantially as described.

4. In a book-support, the combination with a frame, having an arm adapted to fit against

the book-shelf and a second arm on the opposite side of the shelf; of a support mounted 30 on said frame and adapted to fit on said shelf; and a set-screw having a screw connection with said frame so that when properly adjusted thereon the support will be clamped to the shelf; substantially as described. 35

5. The combination with a shelf having a flanged way; of a book-support provided with an engaging flange; a latch pivoted in said support; and means for swinging said latch 40 on its pivot to hold said engaging flange in engagement with said flanged way, substantially as described.

6. The combination with a book-shelf having a flanged way; of a book-support provided with an engaging flange; a latch pivoted in said support; and a set-screw for 45 swinging said latch on its pivot to hold said engaging flange in engagement with said flanged way; substantially as described.

In witness whereof I have hereunto set my 50 hand this 19th day of August, A. D. 1897.

JOEL SUMNER SMITH.

Witnesses:

T. J. COLEMAN,  
SAMUEL H. FISHER.