

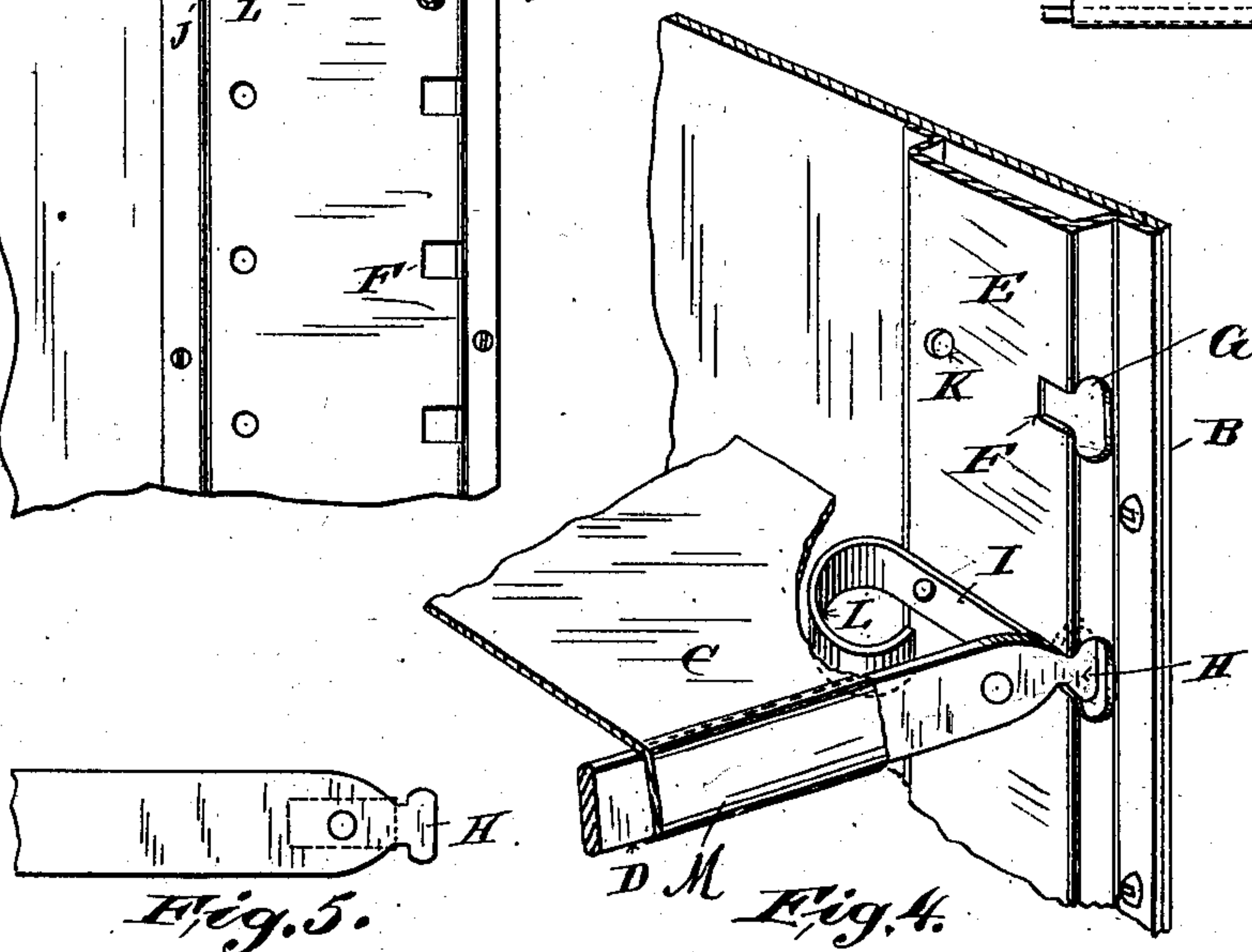
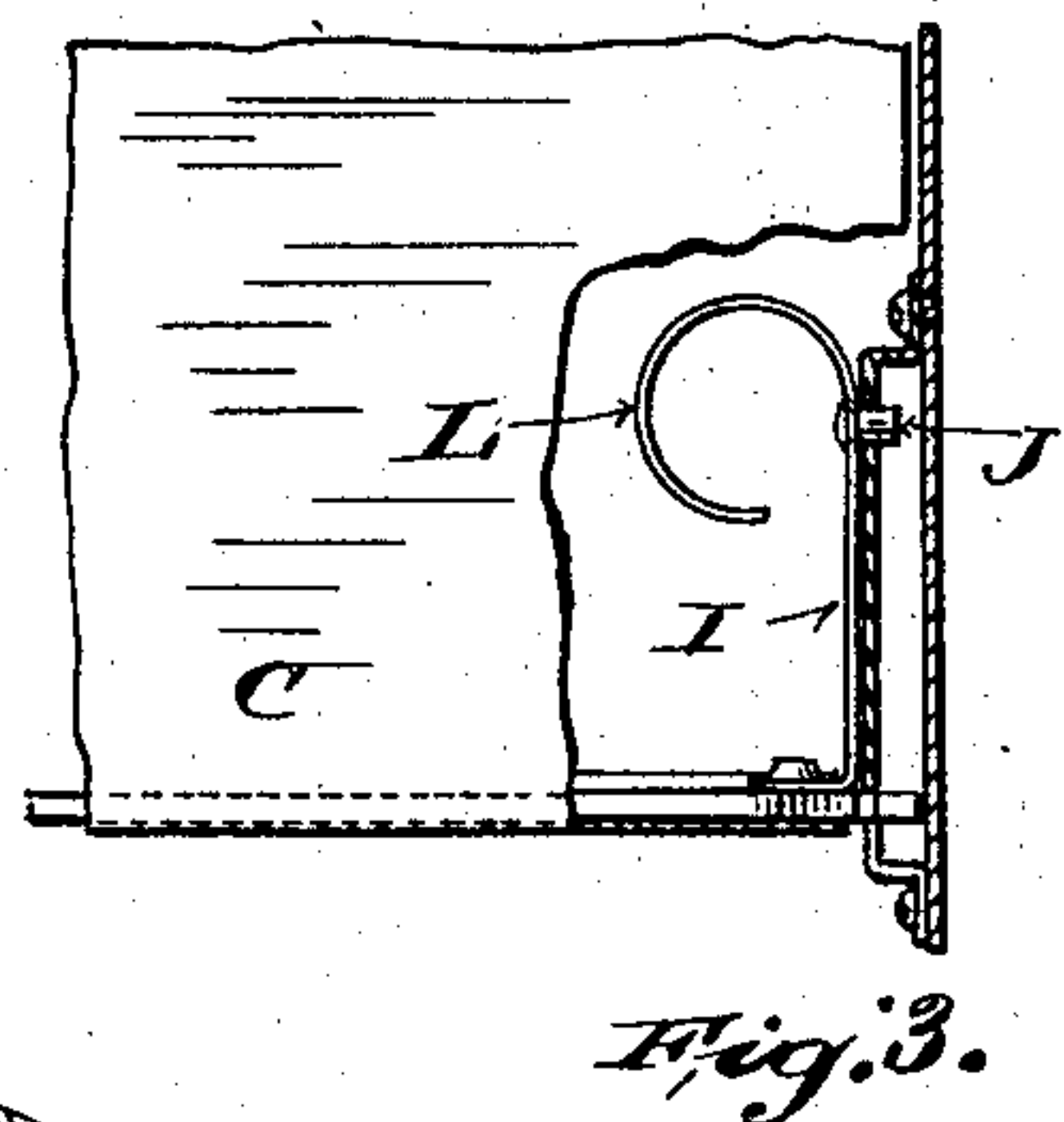
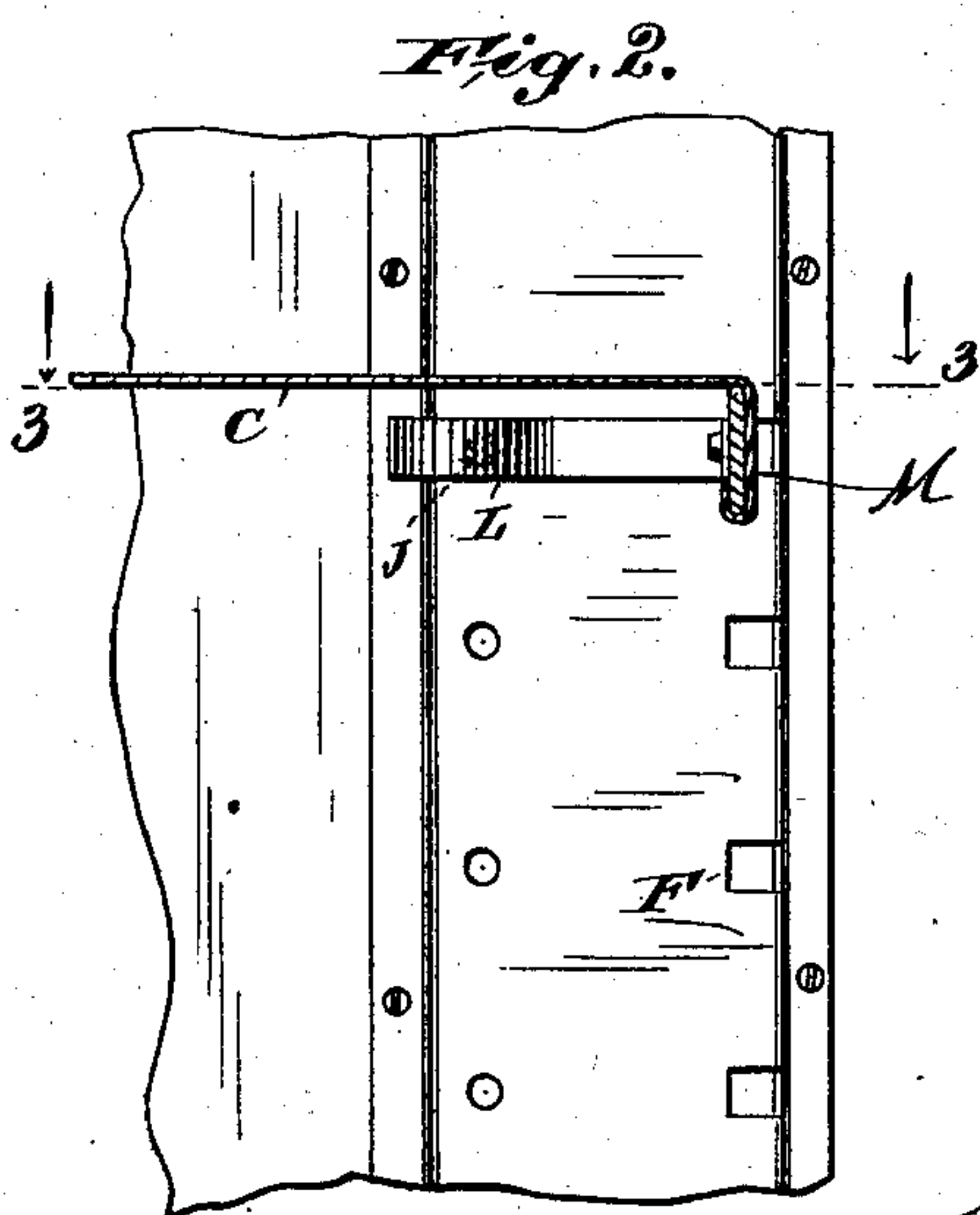
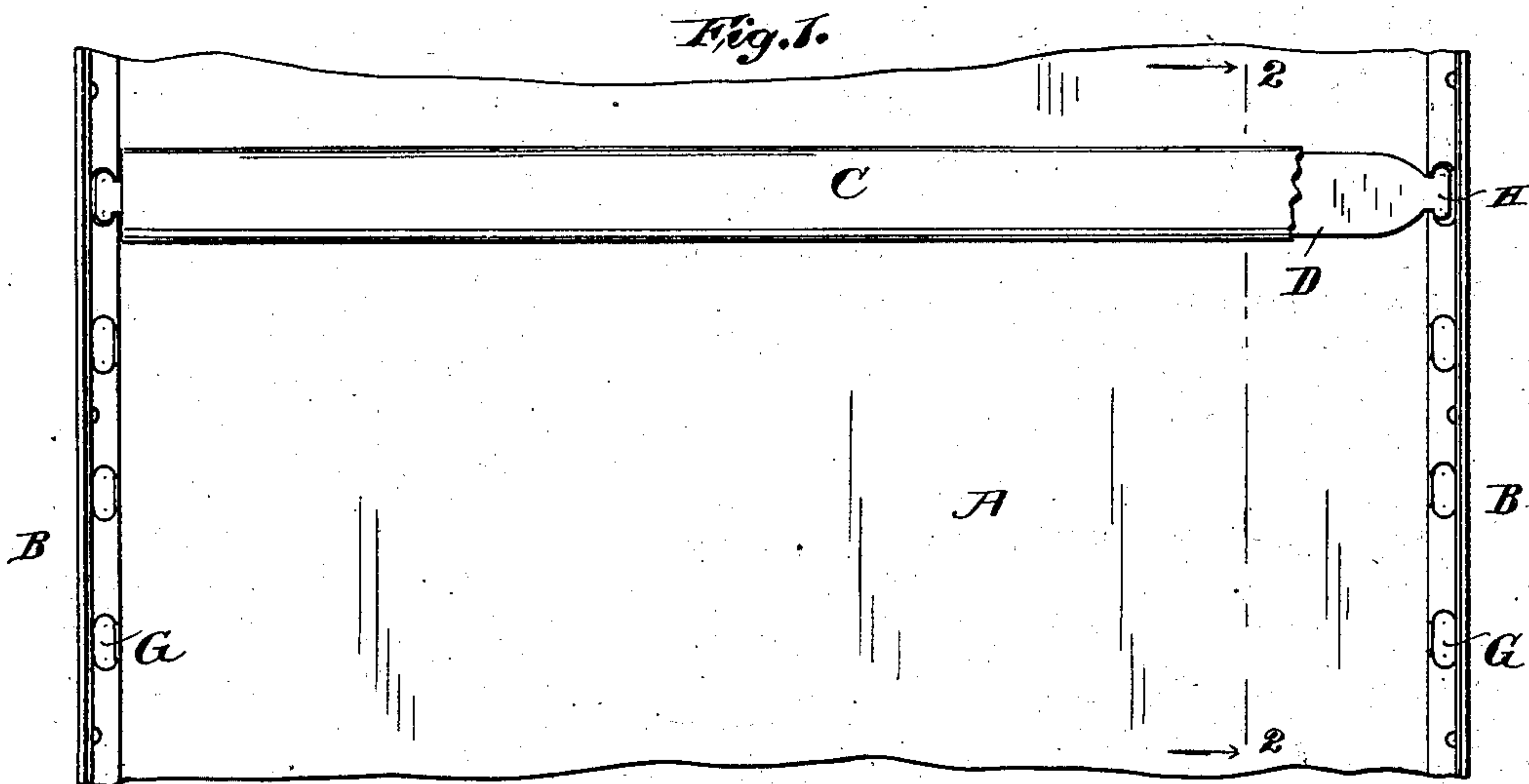
No. 721,404.

PATENTED FEB. 24, 1903.

P. M. WEGE.
SHELF SUPPORT.

APPLICATION FILED JUNE 12, 1902.

NO MODEL.



Witnesses;
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UNITED STATES PATENT OFFICE.

PETER M. WEGE, OF NILES, OHIO, ASSIGNOR TO THE GENERAL FIRE-
PROOFING COMPANY, A CORPORATION OF OHIO.

SHELF-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 721,404, dated February 24, 1903.

Application filed June 12, 1902. Serial No. 111,299. (No model.)

To all whom it may concern:

Be it known that I, PETER M. WEGE, a citizen of the United States, residing at Niles, Ohio, have invented certain new and useful
5 Improvements in Shelf-Supports, of which the following is a specification, accompanied by drawings.

My invention relates to supports for shelves, as the shelves of a bookcase; and its object
10 is to afford a ready and convenient means for adjusting the height of the shelves as desired.

My invention consists in the means for carrying out the above object, having substantially the construction hereinafter fully de-
15 scribed, and shown in this specification and accompanying drawings, in which—

Figure 1 is a front elevation of a portion of a bookcase with part of the shelf broken away to show the support. Fig. 2 is a sectional side elevation on the line 2 2 of Fig. 1.
20 Fig. 3 is a top plan view of a corner of the shelf with part of the shelf broken away and the parts in section on the line 3 3 of Fig. 2 to show the locking device. Fig. 4 is a perspective view of a corner of the shelf and
25 case, partly broken away; and Fig. 5 is a detail view of one end of the shelf-support.

Referring to the drawings, at Fig. 1 a portion of the frame of the bookcase is shown, in
30 which A represents the back, and B B the sides, constructed of any suitable material, but preferably of sheet metal. The shelves C may be supported at the rear of the frame in any suitable manner, which is not necessary to illustrate, and the front of a shelf is
35 supported in a manner to be described by devices embodying my invention. Suitable supports for the front ends of the shelves C are provided, in this instance these supports being shown as rods D, preferably of metal, and
40 means are provided at the sides of the frame of the case for supporting the ends of the rods in such manner that the shelves may be readily and quickly removed from the frame and
45 adjusted in height to various positions, as desired. Means are also provided for locking or clamping the ends of the rods D to the sides of the frame. While any suitable cooperating means may be provided on the sides of
50 the frame and in connection with the ends of the rods D for supporting the ends of the rods

on the frame, in this instance I have illustrated grooves on the sides B and have shown the ends of the rods D as adapted to the grooves on the frame. While the grooves 55 might be formed in any suitable manner, a simple and convenient construction is that shown, in which bent plates E are secured to the inner portions of the sides B and provided with a series of notches or grooves F, 60 the front portion of the bent plates E being formed with suitable apertures G for the reception of the ends H of the rods D. The shape and construction of the grooves, apertures, and the ends of the rods D may be any- 65 thing desired, but the construction shown has been found simple and practical. By inserting the ends of the rods D in different grooves the height of a shelf may be adjusted. 70

The means that I prefer to provide for securing or locking the rods or supports D to the frame consist of suitable springs I, fastened, as by riveting, to the rods D and extending in directions transversely to the 75 length of the rods. As shown, the springs I extend substantially at right angles to the rods. At a suitable distance from the rod upon the spring I provide lugs or catches J, adapted to apertures K in the bent plates or 80 supports E, while the springs I are preferably curved, as shown at L, in order to form finger-pieces for flexing the springs.

It will be readily seen that according to the construction described by inserting the ends 85 of the rods D in the grooves arranged at the sides of the frame and pressing the rods inwardly to a sufficient extent the lugs will enter the apertures K, being forced therein by the springs I, and securely lock the rods or 90 supports D to the frame. To remove the rods D, the springs I—of which it is understood there is one at each end—are pressed away from the sides of the frame, withdrawing the lugs J from their cooperating apertures K, 95 thereby permitting the removal of the rods.

If desired, the shelf C may be formed of sheet metal and secured in front to the rods D, as shown in this instance, the edge of the metal shelf being bent around the rod D, as 100 at M, so that the whole shelf and its support are removable and adjustable together.

Without limiting myself to the construction shown and described, I claim and desire to obtain by Letters Patent—

1. The combination with the frame of a
5 bookcase, of a shelf-support consisting of a single rod provided with means at each end for detachably locking it to the sides of the frame, and means independent of said locking means for supporting the ends of the rod
10 at the sides of the frame, substantially as set forth.

2. The combination with the frame of a bookcase provided with grooves in its sides, of a shelf-support consisting of a rod, the
15 ends of which are adapted to said grooves, and means for locking the ends of said rod to the sides of the frame, substantially as and for the purposes set forth.

3. The combination with the frame of a
20 bookcase provided with grooves in its sides,

of a shelf-support consisting of a rod, the ends of which are adapted to said grooves, and spring-catches for locking the ends of said rod to the sides of the frame, substantially as and for the purposes set forth. 25

4. The combination with the frame of a bookcase, of a shelf provided with a support connected thereto, consisting of a single rod provided with a spring-catch at each end for locking the same to the sides of the frame, 30 and means independent of said catches for supporting the ends of the rod at the sides of the frame.

Signed this 22d day of May, 1902, at Niles, Ohio.

PETER M. WEGE.

Witnesses:

JOSEPH SMITH,
H. E. WHITE.