

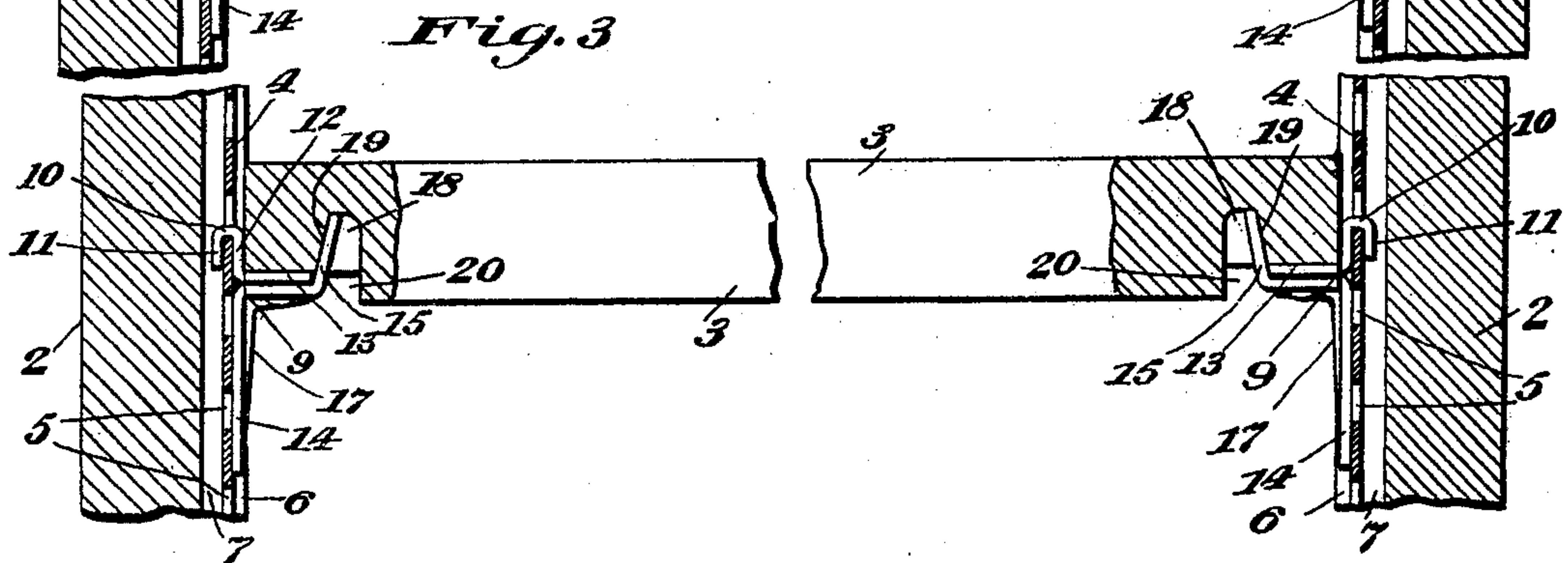
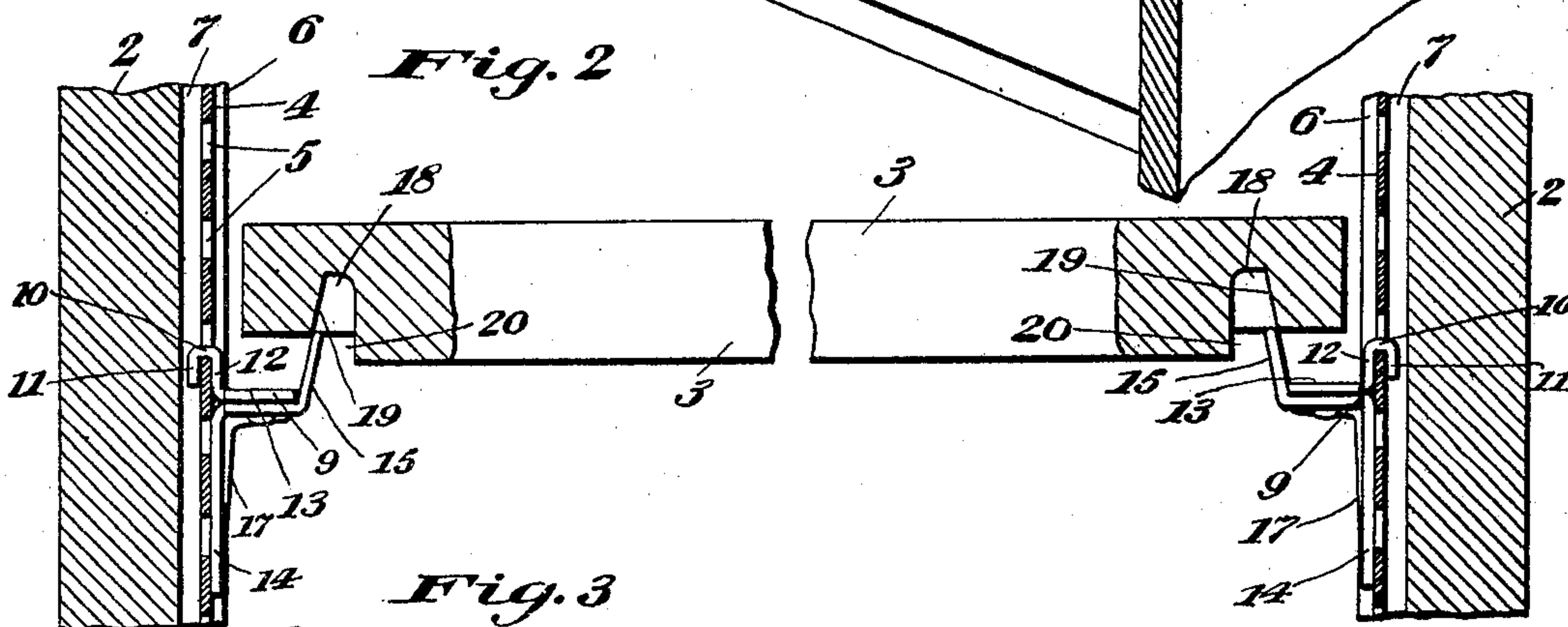
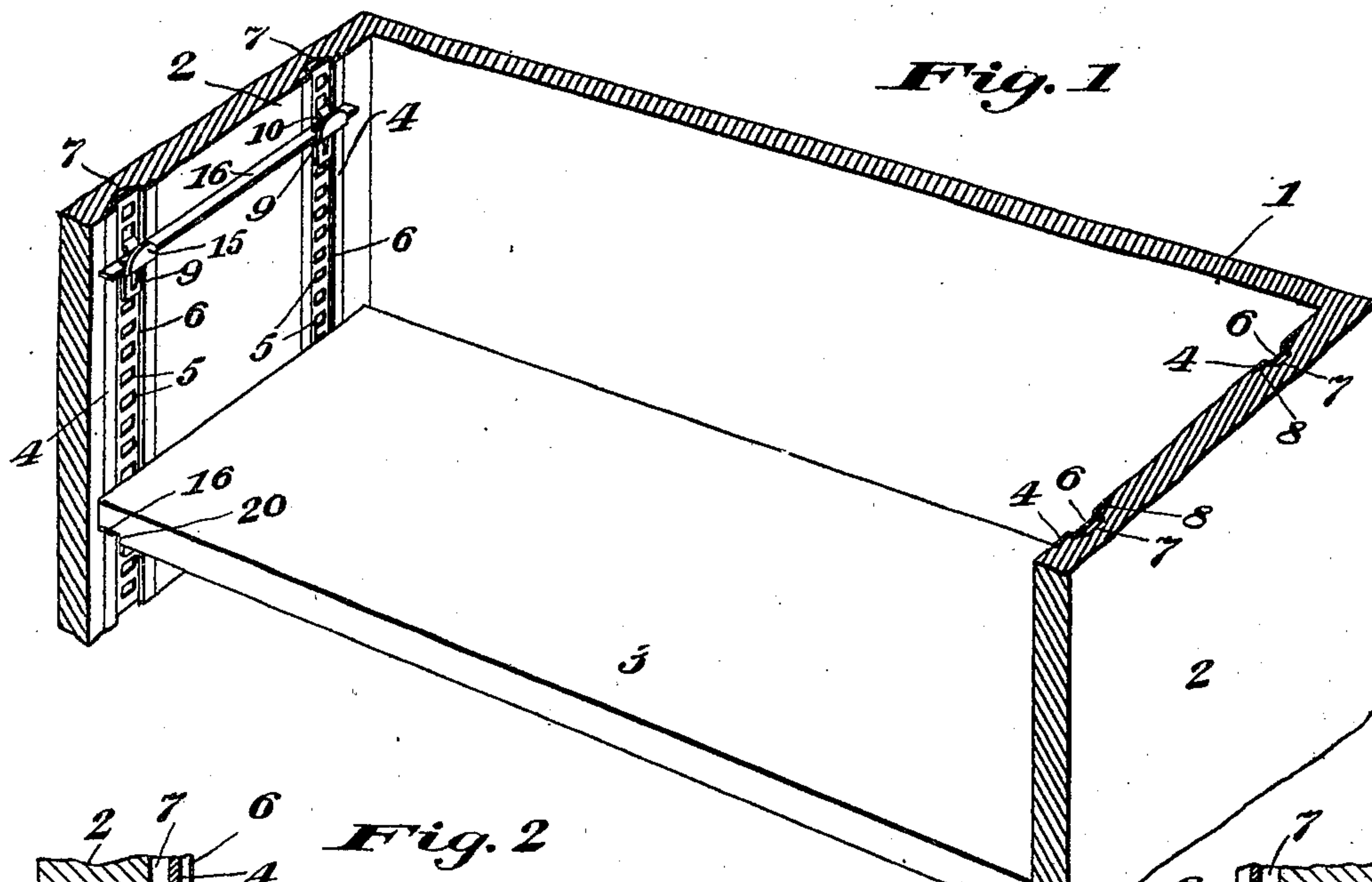
No. 754,816.

PATENTED MAR. 15, 1904.

E. G. SCHRIEFER.
ADJUSTABLE SHELF SUPPORT
APPLICATION FILED APR. 30, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses

J. D. Thorne

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Inventor

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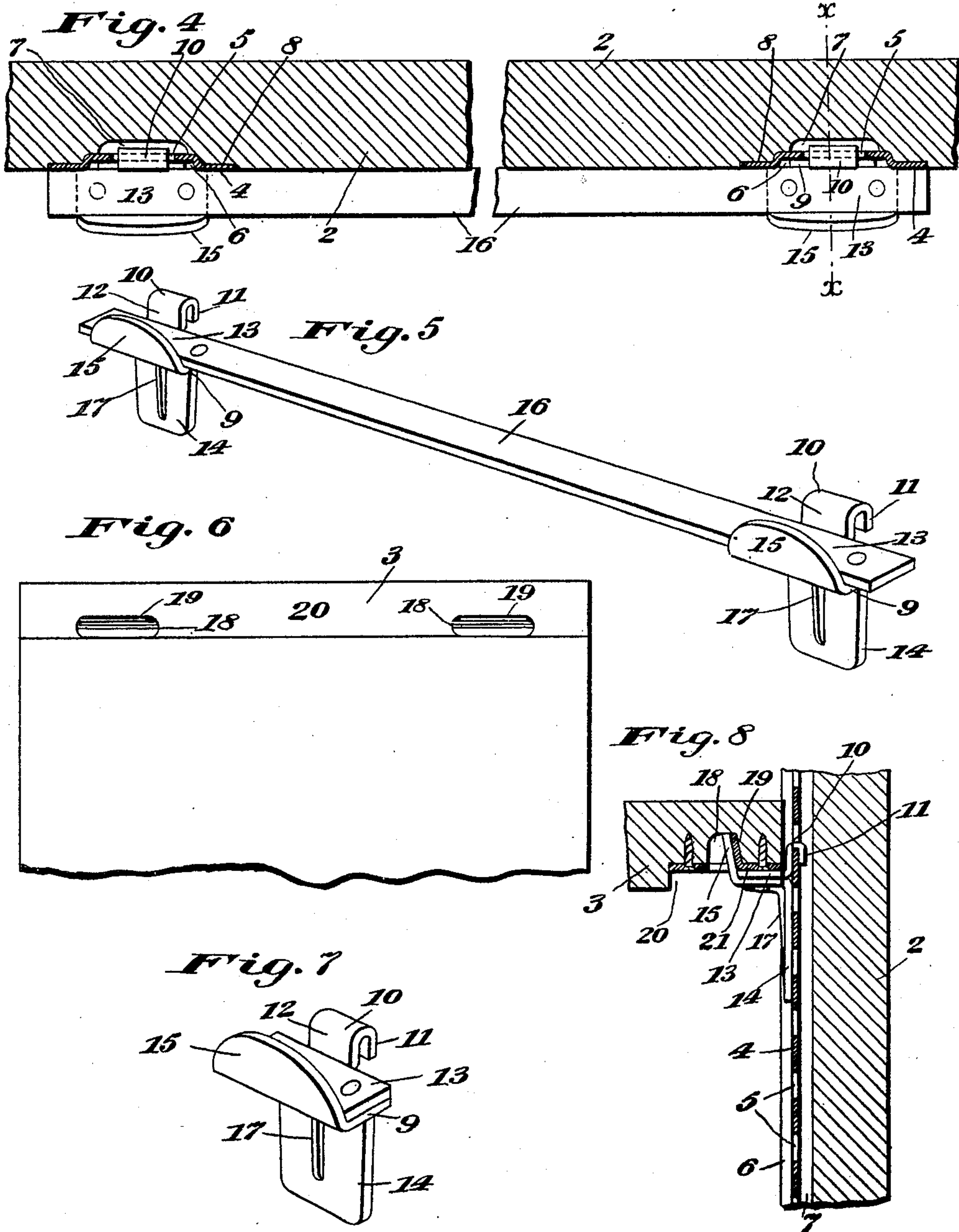
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UNITED STATES PATENT OFFICE.

EDWARD G. SCHRIEFER, OF CINCINNATI, OHIO.

ADJUSTABLE SHELF-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 754,816, dated March 15, 1904.

Application filed April 30, 1902. Serial No. 105,388. (No model.)

To all whom it may concern:

Be it known that I, EDWARD G. SCHRIEFER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Adjustable Shelf-Supports, of which the following is a specification.

It is the object of my invention to provide new and useful improvements in adjustable shelf-supports suitable for shelves, which may also take the form of filing units and the like in cases, such as book or filing cases, store or other fixtures, racks, and the like; and my invention consists in means whereby the shelf is supported and aiding to relatively position the sides of the case and the shelf, in means aiding in holding the sides against sidewise displacement or bulging, and, further, in the parts and in the construction, arrangement, and combinations of parts hereinafter more fully described and claimed.

The subject-matter claimed in the present application is also shown and described in my applications, Serial Nos. 92,461, 92,462, and 92,463, filed February 3, 1902. I have also shown, described, and claimed an adjustable shelf-support in another application of even date herewith, being Serial No. 105,389, differing in detail from the form of adjustable shelf-support herein shown and described, to all of which applications reference is respectfully made.

In the drawings, Figure 1 represents a perspective view of my improved device in connection with a case with the top and bottom and front edges of the case broken away. Fig. 2 is a vertical section taken through the sides of the case and shelf on a line corresponding to the line *xx* of Fig. 4 with the shelf in raised position and showing the sides in spread relation. Fig. 3 is a similar view showing the shelf seated and the sides in proper relative position. Fig. 4 is a plan view of my improved device with the side shown in horizontal cross-section and the shelf omitted. Fig. 5 is a perspective view of the connected support. Fig. 6 is a bottom view of the shelf, showing receiving-mortises for the tongues of the supports. Fig. 7 is a perspective view of a single support; and Fig. 8

is a vertical section taken on a line corresponding to the line *xx* of Fig. 4, but showing as a modification a plate taking into the shelf-mortises.

1 represents the back of the case, and 2 the sides. 3 is a shelf. Strips 4 are secured to the sides, the strips having openings 5 and may also have a groove 6, extending longitudinally of the strips and receding outwardly from the inside of the case. In the depressed portion of each groove the openings 5 are located. The strips are suitably secured to the case, and a clearance-groove 7 is located in rear of the openings. The strips are preferably countersunk into the sides in grooves 8, so as to leave the outer edges of the strips flush with the sides. Supports 9 are adapted to support the shelf. The support preferably comprises a hook 10, adapted to take through one of the openings, having a lip 11, adapted to engage the rear of the strip 4, and a depending shank 12, adapted to be received by the groove 6, and a ledge 13, adapted to receive the shelf. A depending portion or tail 14 takes against the strip, preferably in the groove 6, and a finger 15 extends above the ledge 13, preferably at an angle to the strip, for forming a wedge or inclined face adapted to draw the shelf and the sides together. Each side is preferably provided with a plurality of strips, usually one toward the rear and one toward the front of the shelf, each strip having a support 9 for each shelf. The supports may be connected by a web 16. A rib 17 may be provided for the support. The shelves have recesses 18 for receiving the fingers of the supports. The side of the mortise toward the end of the shelf may be inclined, as shown at 19, to correspond to the inclination of the finger. The end of the shelf may also be rabbetted, as shown at 20, for receiving the support. The mortise for the shelf may also be provided with a face-plate 21, against which the finger may take. Means are thus provided whereby the shelf coming in connection with the support, through pressure on the shelf, draws the sides together in case they are bulged. Means are provided for positioning the sides properly by a wedging action, and simple and effective

means are provided for limiting sidewise displacement of the sides. The strips 4 are preferably made of metal—for instance, sheet metal—properly perforated and bent to form, the supports being also preferably made of metal, while the case and shelves may be made of wood or, if desired, of other material. The face-plate 21 may be made of metal, or, if desired, the finger may impinge against the wood of the shelf.

I claim—

1. The combination with a pair of sides and a shelf, of shelf-strips secured to and extending up and down on each side at the inner face thereof, and shelf-supports releasably engaging said shelf-strips at various elevations and extending from said sides under the ends of the shelf, said shelf-strips having a groove and said supports having a downwardly-projecting shank extending into said groove, said shelf and supports having interengaging inclined faces acting to draw the sides toward the shelf while seating the shelf with relation to the sides.

2. The combination with a pair of sides and a shelf, of shelf-strips secured to and extending up and down on each side at the inner face thereof, and shelf-supports releasably engaging said shelf-strips at various elevations and extending from said sides under the ends of the shelf, said shelf-strips having a groove and said supports having a downwardly-projecting shank extending into said groove, and means between the shelf and sides acting to draw the sides inwardly while seating the shelf, said means and shelf adjustable up and down on the sides.

3. The combination of a pair of sides each having a pair of grooves in its inner face, four shelf-strips, one in each of said grooves and extending up and down on the side, each of said shelf-strips having a groove in its outer face and a flange at each side of said groove projecting sidewardly from said groove in substantially the plane of the inside face of said side, a pair of shelf-supports releasable from

said shelf and sides, one at each end of the shelf extending beyond said end from said shelf-strips, said shelf-strips having openings for receiving said supports and said shelf-supports having shanks taking into said grooves in said shelf-strips.

4. The combination of a pair of sides each having a pair of grooves in its inner face, four shelf-strips, one in each of said grooves and extending up and down on the side, each of said shelf-strips having a groove in its outer face and a flange at each side of said groove projecting sidewardly from said groove in substantially the plane of the inside face of said side, a pair of shelf-supports releasable from said shelf and sides, one at each end of the shelf extending beyond said end from said shelf-strips, said shelf-strips having openings for receiving said supports and said shelf-supports having shanks taking into said grooves in said shelf-strips, with means between the shelf and shelf-support for relatively drawing the shelf and side toward each other while seating the shelf.

5. In an adjustable shelf-supporting device the combination with the sides of a case and a shelf therefor, said sides having grooves 7 and 8, shelf-strips 4 having grooves 6 and openings 5 and also having sidewardly-extending flanges located in the grooves 8, supports 9 having a hook 10 arranged to engage in said openings 5, said supports further having depending shank 12 and depending tail 14 taking into the said groove 6 and also having a finger 15, the shelf having an opening 18 the outer wall of which is arranged to engage said finger 15, and constructed and arranged for relatively drawing the shelf and side toward each other when seating the shelf.

In testimony whereof I have signed my name hereto in the presence of two subscribing witnesses.

EDWARD G. SCHRIEFER.

Witnesses:

ERNEST G. SIMON,
HERBERT F. HARDEN.