

No. 675,188.

Patented May 28, 1901.

E. E. BAKER.
SECTIONAL CASE.

(Application filed Dec. 14, 1900.)

(No Model.)

Fig. 1.

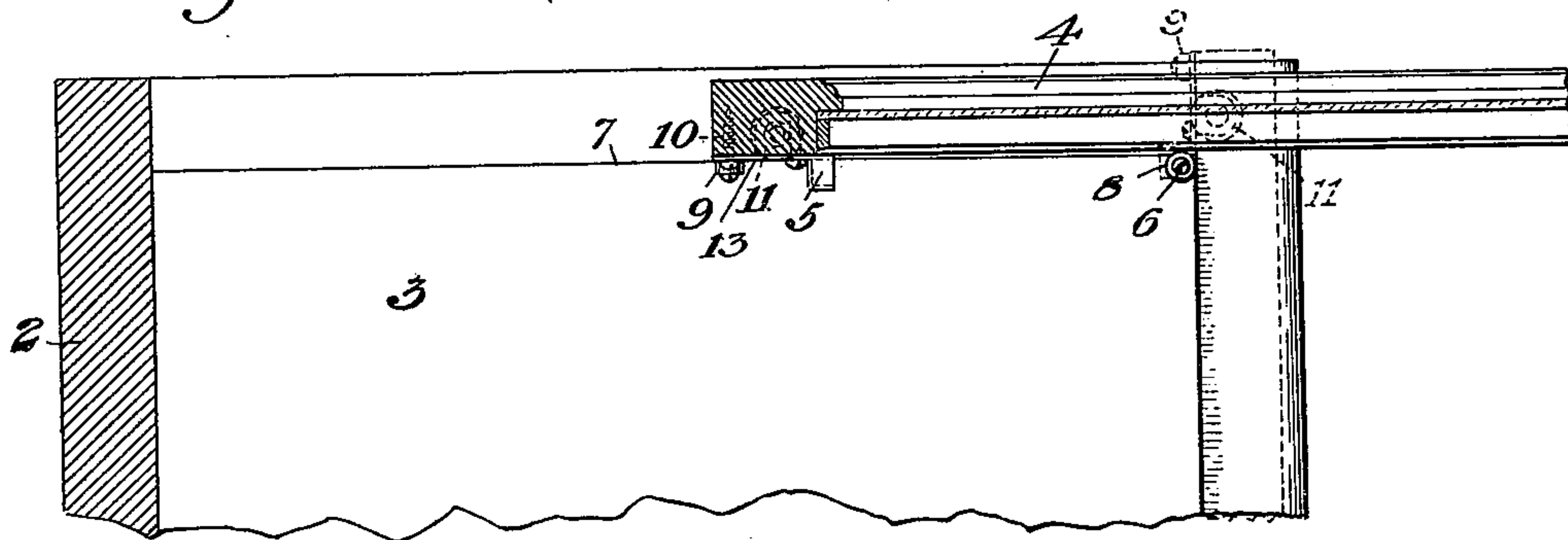


Fig. 2.

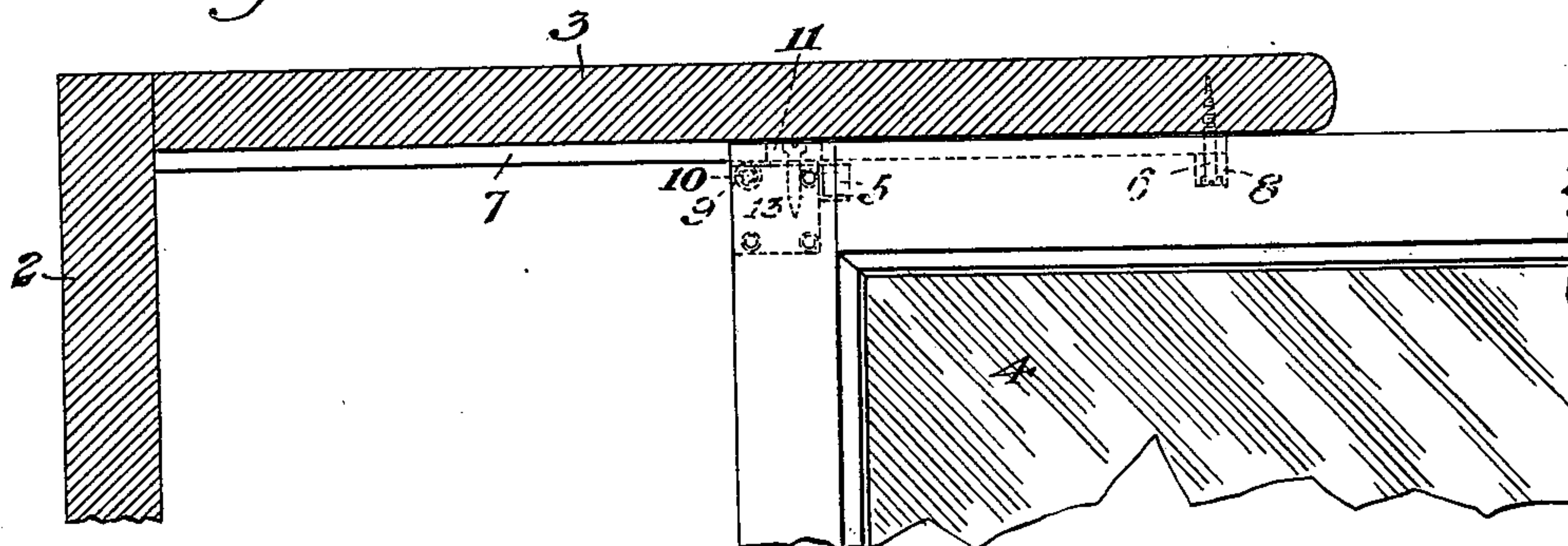


Fig. 3.

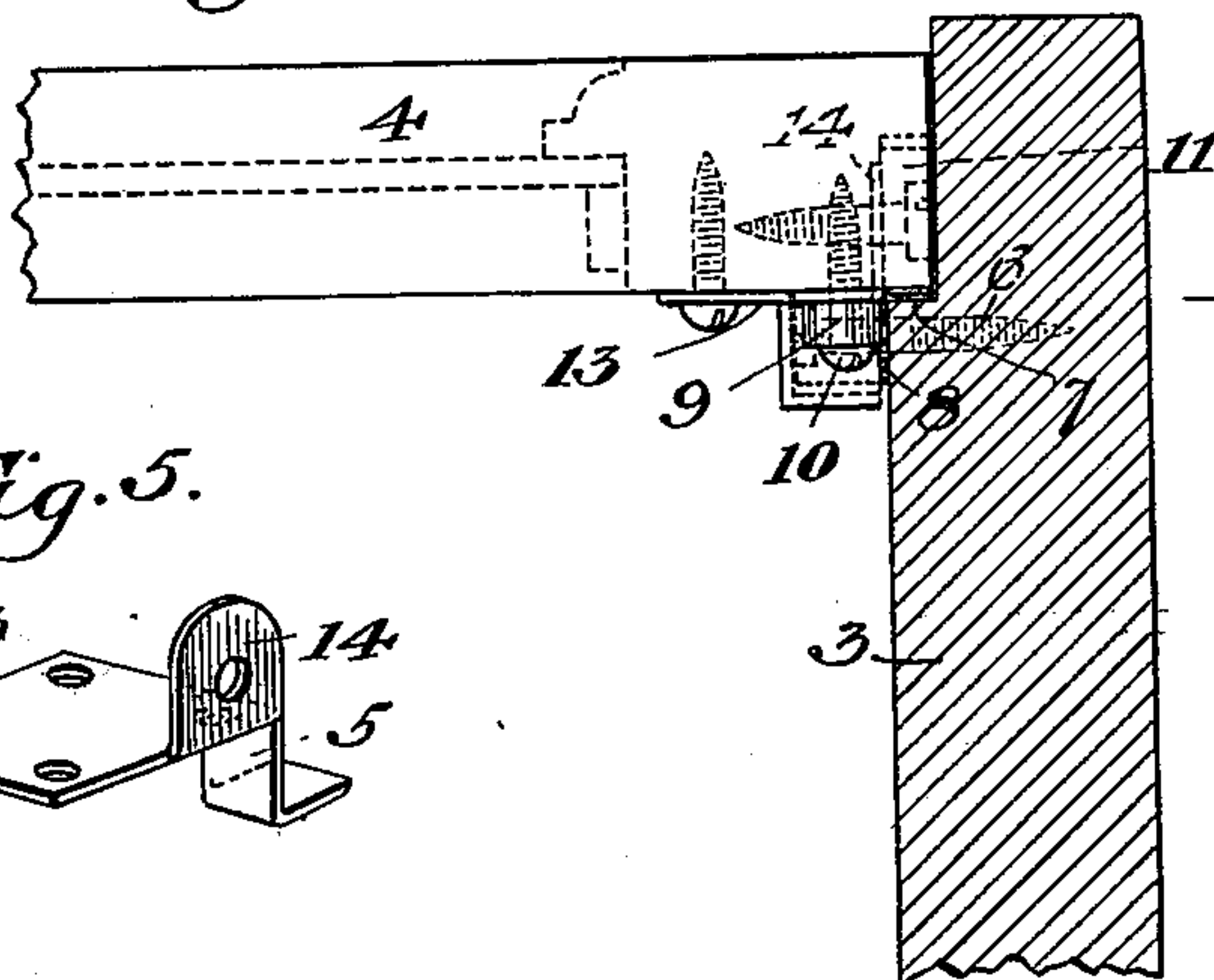


Fig. 4.

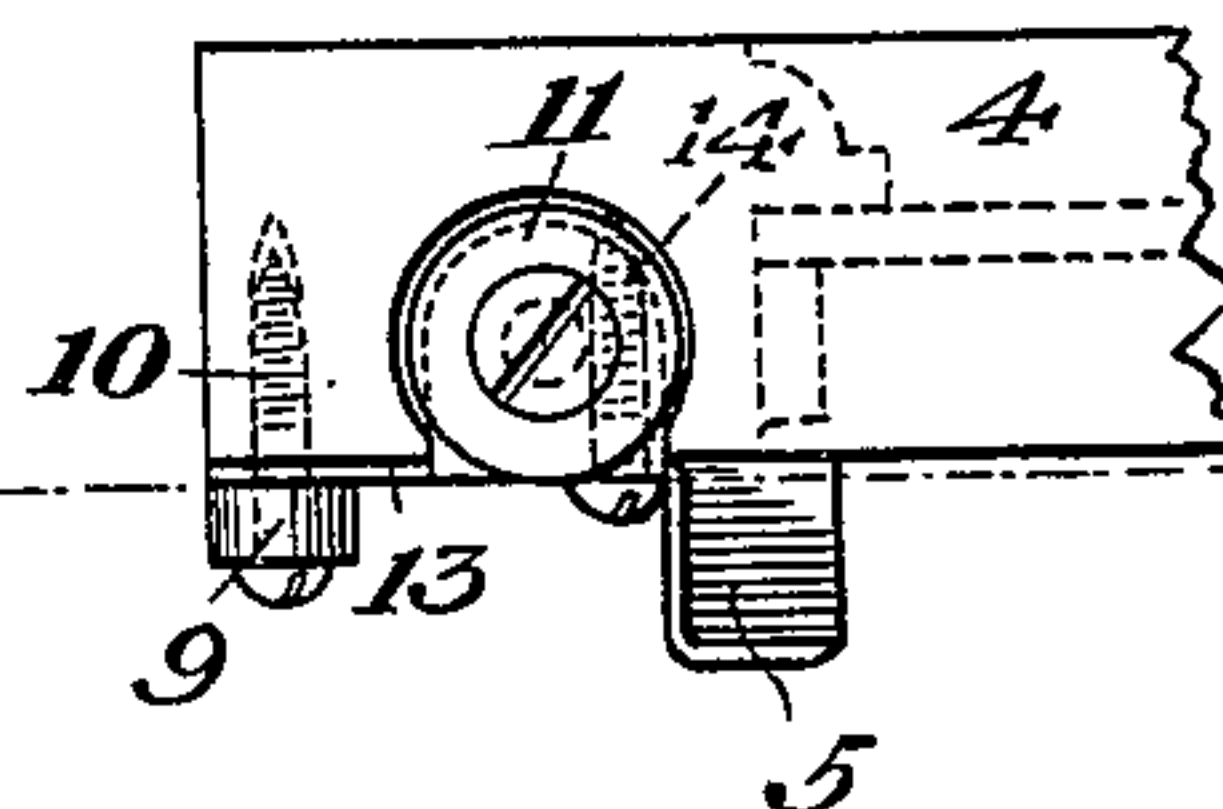
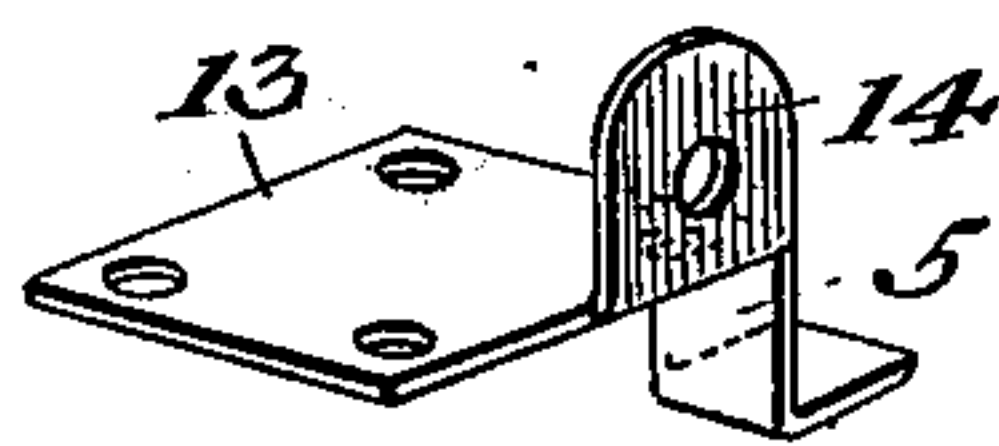


Fig. 5.



WITNESSES

L. R. Corning
E. B. Blomberg

INVENTOR

E. E. Baker
by Baker & Baker
his attys.

UNITED STATES PATENT OFFICE.

EDWARD E. BAKER, OF PITTSBURG, PENNSYLVANIA.

SECTIONAL CASE.

SPECIFICATION forming part of Letters Patent No. 675,188, dated May 28, 1901.

Application filed December 14, 1900. Serial No. 39,885. (No model.)

To all whom it may concern:

Be it known that I, EDWARD E. BAKER, of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Sectional Cases, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section, partly broken away, of a case-section and door constructed in accordance with my invention. Fig. 2 is a broken top plan view showing the rear right-hand corner portion of the door. Fig. 3 is a broken rear elevation showing the left-hand corner of the door and its relation to the side of the case. Fig. 4 is a partial top plan view showing the left side corner portion of the door, and Fig. 5 is a perspective view showing my improved form of hinge-clips and corner-plate.

My invention relates to that class of cases wherein sliding and swinging doors are used, the door being swung up to horizontal position and then slid back horizontally within the case; and its object is to prevent the binding and jamming of the door, which frequently occurs in pushing it back over the tops of the books or other articles in the case.

In the drawings, 2 represents the back, and 3 the side portion, of a sectional case having the swinging and sliding door 4. This door is provided near each rear corner with a hinge-clip, which is entirely inside the inner vertical face of the side of the case and coacts with the hinge-pin 6, which correspondingly projects beyond this inner face. This hinge-clip 5 is preferably formed as part of a corner-plate 13, (shown in Fig. 5,) which has a turned-up lug or flange 14, forming a bearing and washer for the roller 11, hereinafter described. The side of the case is rabbeted in its upper portion, leaving the horizontal shoulder 7, which is very slightly below the level of the upper periphery of the roller 8, that I have shown as provided on the hinge-pin 6.

In the rear of the hinge-clip and at or near each corner of the door I secure a guide, which I have shown as consisting of a roller 9, mounted upon a screw-pin 10, which screw extends vertically when the door is in the horizontal position and forms one of the securing-screws

for plate 13. These guide-rollers 9 contact with the inner faces of the case sides below the shoulders and hold the door in proper position, preventing it from canting sidewise and jamming as it is pushed back. To facilitate the movement of the door and make it more easy-running, I may also use a roller 11, which sets within a cut-away recess in the side rail of the door, as shown in Fig. 4, and rotates on a horizontal pin or screw 12. These rollers 11 rotate on the shoulders 7 as the door moves back and forth horizontally. The plate 13 forms a bearing for the guide-roller 9. It also prevents splitting of the rail by the screw 12, while flange 14 lines the recess for roller 11.

The advantages of my invention result from the use of the guide in the rear of the hinge, since this holds the door in proper place at the beginning of its rearward movement. The hinge-clip is set within the lines of the sides, so that the rabbeted shoulder may extend up to a point where it is engaged by the guide, instead of arranging this clip so that it moves along the shoulder, which is rabbeted to a lower level, as heretofore arranged. This inseting of the hinge portion necessitates the lengthening of the stationary hinge-pins, so that it will be properly engaged by the hinge when the swinging movement of the door begins. The device is simple, can be applied with very little cost, and prevents binding and jamming owing to canting of the door.

The guides may be varied widely in form, the supporting-rollers 11 may or may not be used, as desired, and many other changes may be made in the form and arrangement of the parts without departing from my invention, the essential feature of which lies in the locating of a guide on the door in the rear of the hinge.

I claim—

1. A case having closing ends, a sliding and swinging front door having hinge devices secured thereto, and a guide secured to the door in the rear of the hinge member and contacting with the inner face of the end of the case; substantially as described.

2. A case having wooden ends with hinge members secured thereto, a sliding and swinging door therefor having coacting hinge members, and vertically-extending guides secured

to the back portions of the door in the rear of its hinge members and contacting with the inner faces of the ends of the case as the door is slid horizontally; substantially as described.

3. A case, a sliding and swinging door therefor, said door having at or near its rear corners vertical pins provided with rollers arranged to rotate in a horizontal plane in contact with vertical end faces of the case; substantially as described.

4. A case, a sliding and swinging door therefor arranged to move back in rabbeted portions of the case, and hinge devices on the door and located inside the vertical planes of the sides; substantially as described.

5. A case having rabbeted ends and shoulders at each side, front hinge-pins projecting inside the planes of the case sides, a sliding

and swinging door having hinge devices engaging the inner portions of the hinge-pins, and guides on the door at the rear of the hinge devices and contacting with vertical end faces of the case; substantially as described.

6. A case, a sliding and swinging door therefor, a corner-plate secured to the lower side of the rear corner of the door, and a hinge portion with a recessed pocket projecting from the corner-plate and arranged to engage a hinge device on the case; substantially as described.

In testimony whereof I have hereunto set my hand.

E. E. BAKER.

Witnesses:

H. M. CORWIN,

C. P. BYRNES.