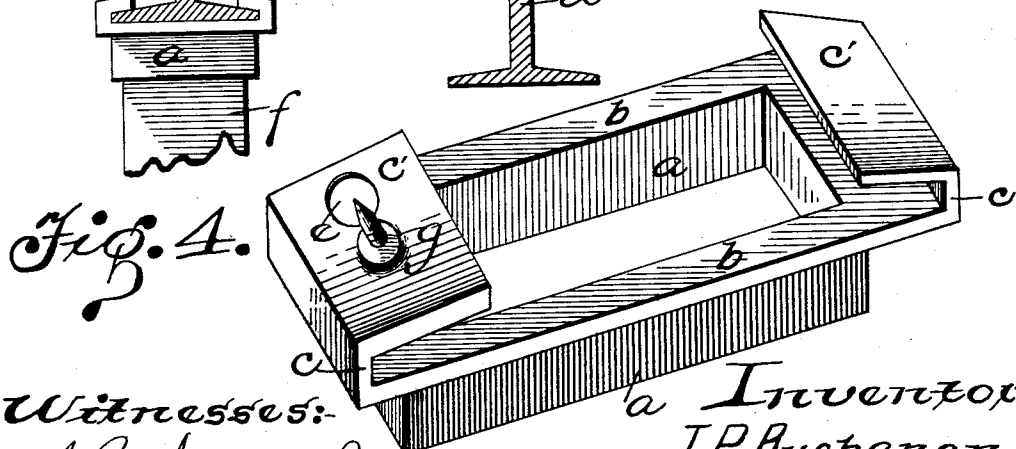
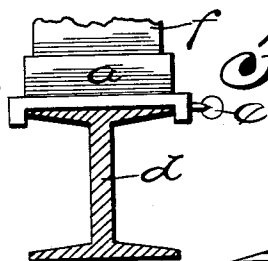
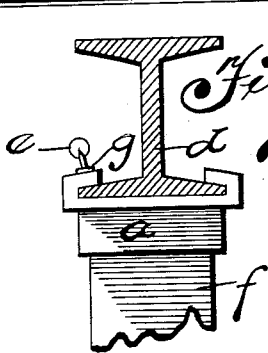
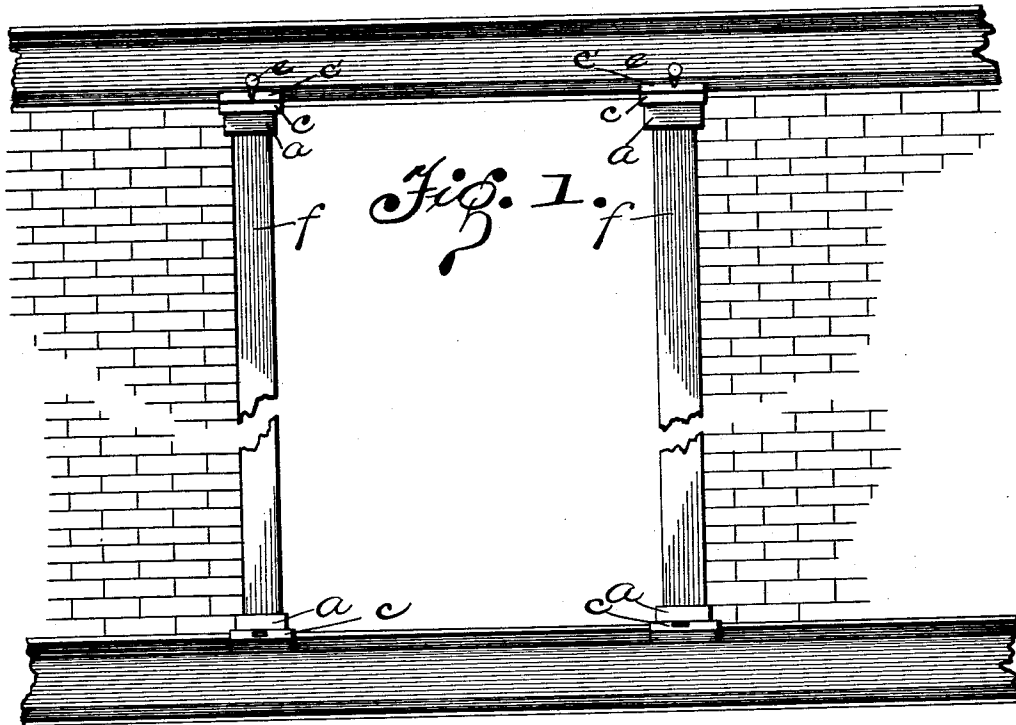


(No Model.)

J. P. BUCHANAN.  
METALLIC DOOR JAMB.

No. 591,620.

Patented Oct. 12, 1897.



Witnesses:  
*A. P. Appleman*  
*A. M. Wilson*

Inventor:  
*J. P. Buchanan*  
 By *Henry C. Cook, Atty.*

# UNITED STATES PATENT OFFICE.

JAMES P. BUCHANAN, OF ALLEGHENY, PENNSYLVANIA.

## METALLIC DOOR-JAMB.

SPECIFICATION forming part of Letters Patent No. 591,620, dated October 12, 1897.

Application filed September 17, 1896. Serial No. 606,063. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES P. BUCHANAN, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Door-Jambs, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in structural ironwork, and has for its object to provide means for holding metallic door-jambs in fireproof buildings in position, so that they will not become  
15 displaced by the slamming of the door.

The invention further aims to provide a device, as above stated, that will be extremely simple in its construction, strong, durable, effectual in its operation, and comparatively  
20 inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the  
25 claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which—

Figure 1 is a view in side elevation, partly broken away, showing the device applied in  
35 position. Fig. 2 is a transverse vertical sectional view of a beam or joist, showing the device in position on same. Fig. 3 is a similar view of a modified form. Fig. 4 is a perspective view of the device.

40 Referring to the drawings by reference-letters, *a* represents a casing or box provided at its top with an outwardly-projecting flange *b*, extending entirely around the box *a*. At the two ends of the box *a* this flange *b* is of sufficient length to admit of same being bent upwardly, as shown at *c*, and inclined inwardly, forming clamps *c' c'*, adapted to fit the flange of the beam *d*. The flanges *b* project horizontally beyond both sides of the box *a* and  
45 serve both to form a broader bearing for the cross-beam and to catch upon the wall and help to support the box in position.

In Fig. 3 I have shown the plates *c' c'* dispensed with, the flange *c* serving to hold the device in position on the beam, and in one of  
55 these flanges I have provided a set-screw *e*, which may be used in either form shown. The clamps *c' c'* engage on the flange of the beam, and the supporting column or post *f* engages in the box or casing *a*, thus retaining the post  
60 in a perfectly vertical position without the aid of the side walls or weight of the beams, which has heretofore been impossible. When the studding or supporting-post has been  
65 moved to the desired position, it is held by the set-screw *e*, being adjusted against the flange of the beam. When this screw is loosened, the device may be adjusted on the beam to any point desired.

In Fig. 4 I have shown the portion *c'* provided on its upper face with a bushing or disk *g*, forming a sufficient thickness of the portion *c'* at this point to receive the set-screw *e*. In this construction the set-screw  
70 will extend upwardly with the device and be protected by the projecting portion of the beam.  
75

The clamps or posts are intended more especially to form door-jambs, and the boxes *a* upon both ends serve to prevent the displacement of these jambs by the slamming of the  
80 doors. Unless the cross-beams should get out of line the jambs, being confined at both ends, can never have the slightest lateral play.  
85

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

The flanged metallic box, or frame, that fits over the top of a vertical post or jamb, and which is provided upon opposite sides  
90 with the flanges *b*, and upon opposite ends with the vertical flanges *c*, and the two inwardly-turned flanges *c'*; the box serving as a means for connecting the beams that extend at a right angle to each other, substantially as shown.  
95

In testimony whereof I affix my signature in presence of two witnesses.

JAMES P. BUCHANAN.

Witnesses:

A. M. WILSON,  
W. J. WHITE.