

B. R. Eames,

Door Securer.

N^o 12,675.

Patented Apr. 10, 1855.

Fig. 1.

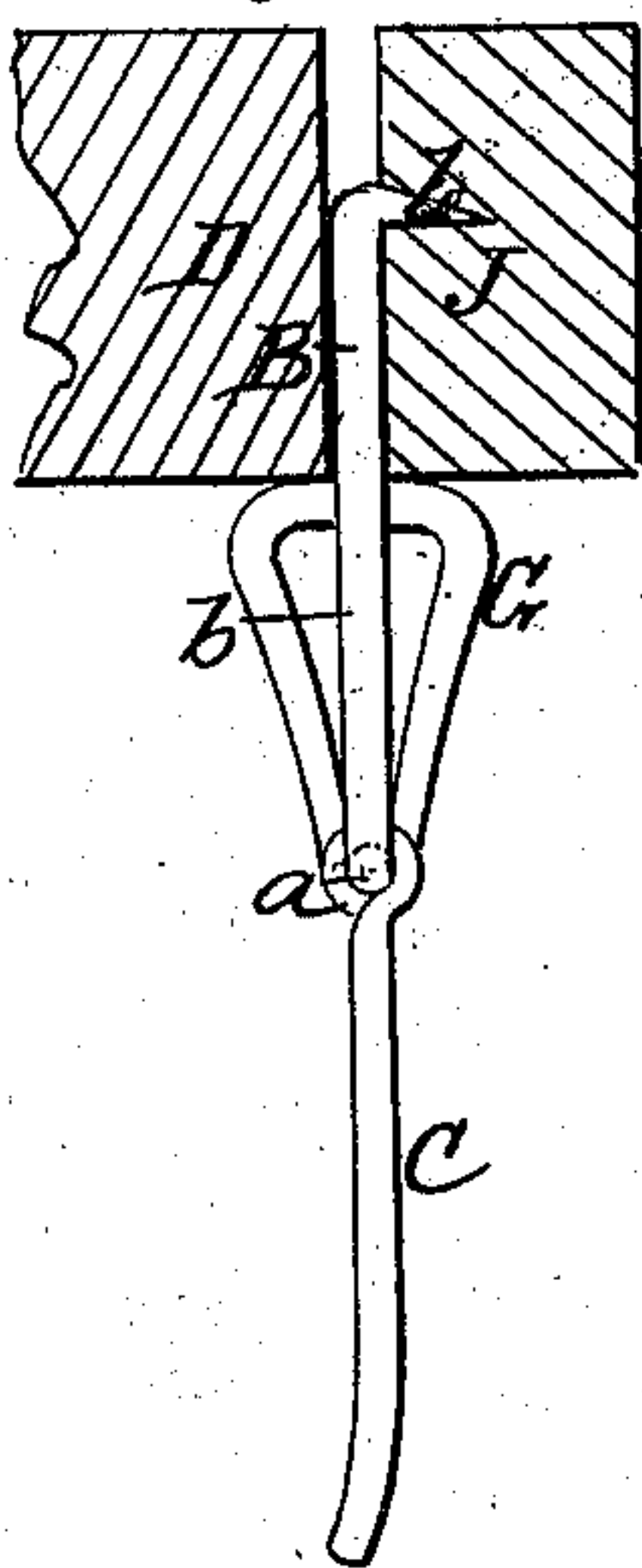


Fig. 3.

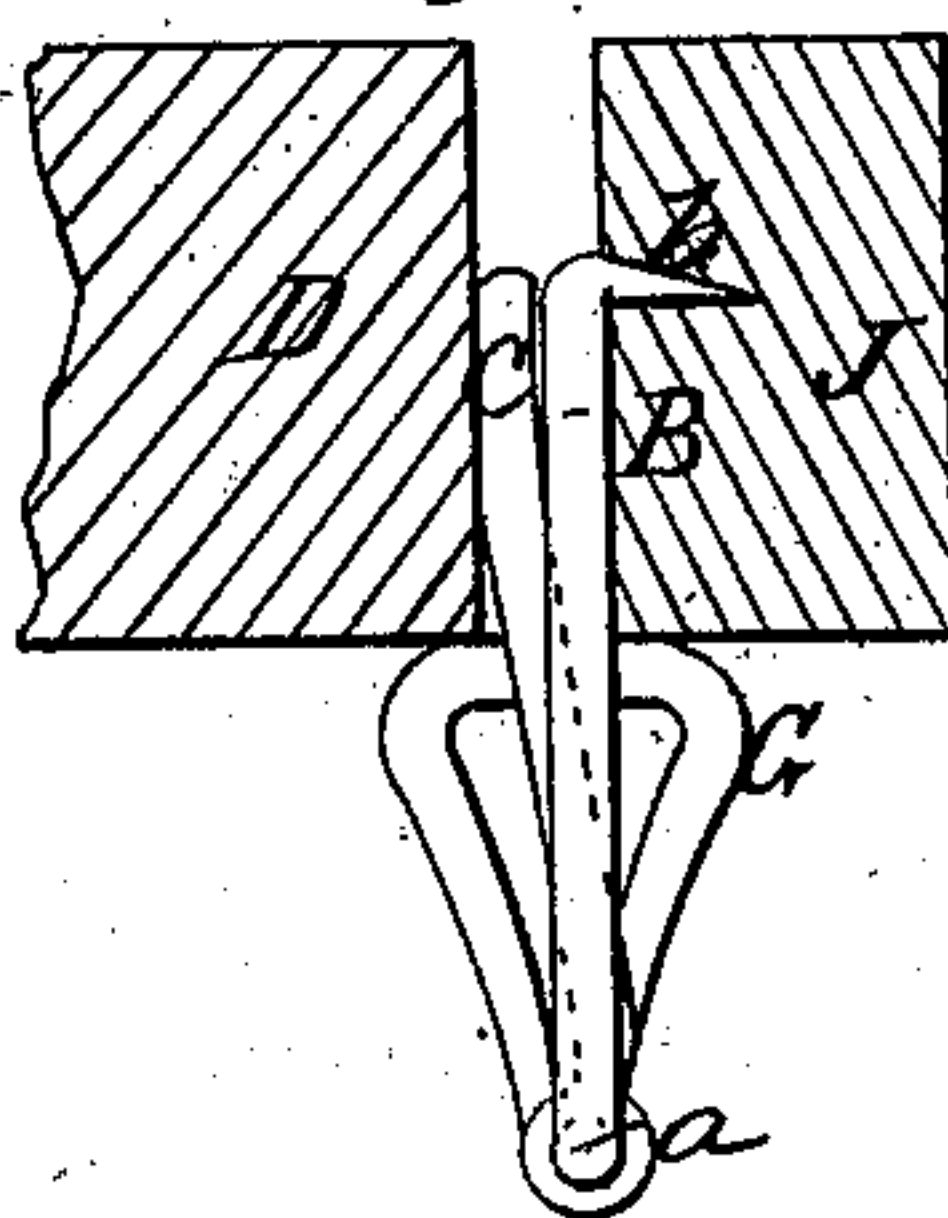


Fig. 2.

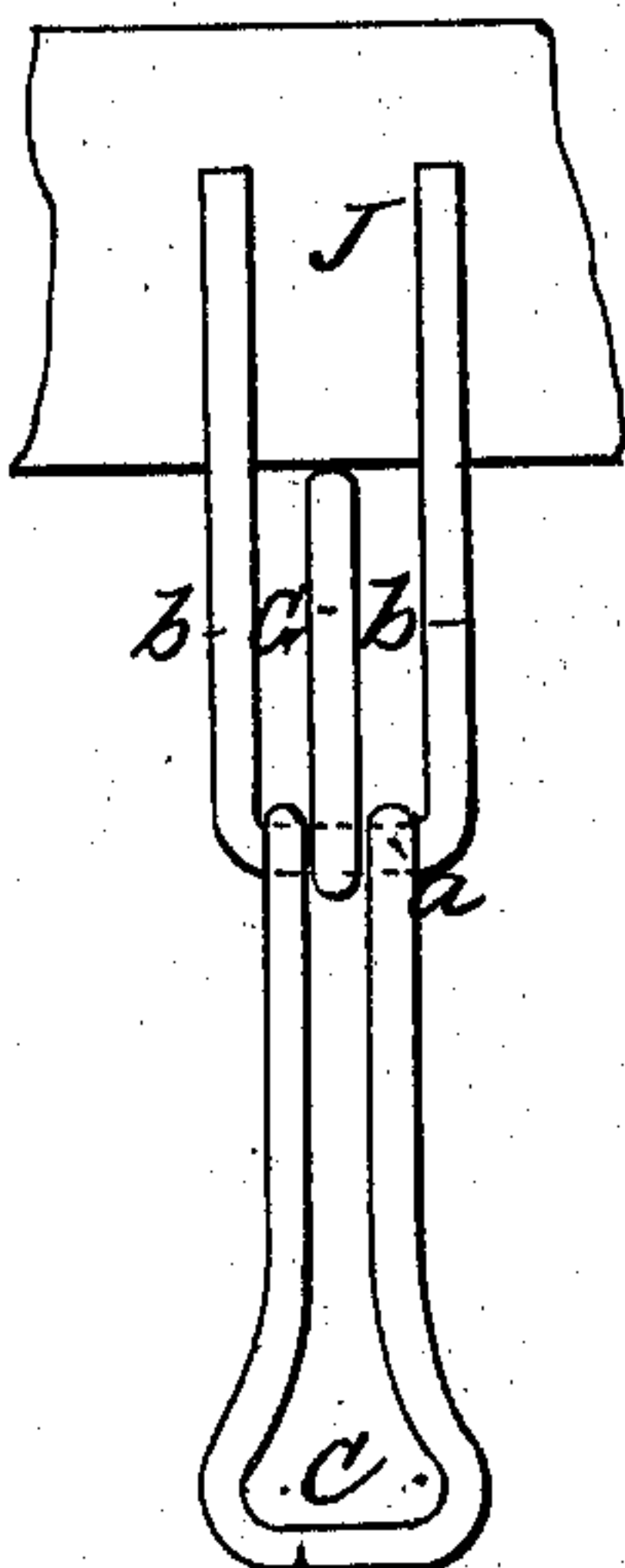


Fig. 4.

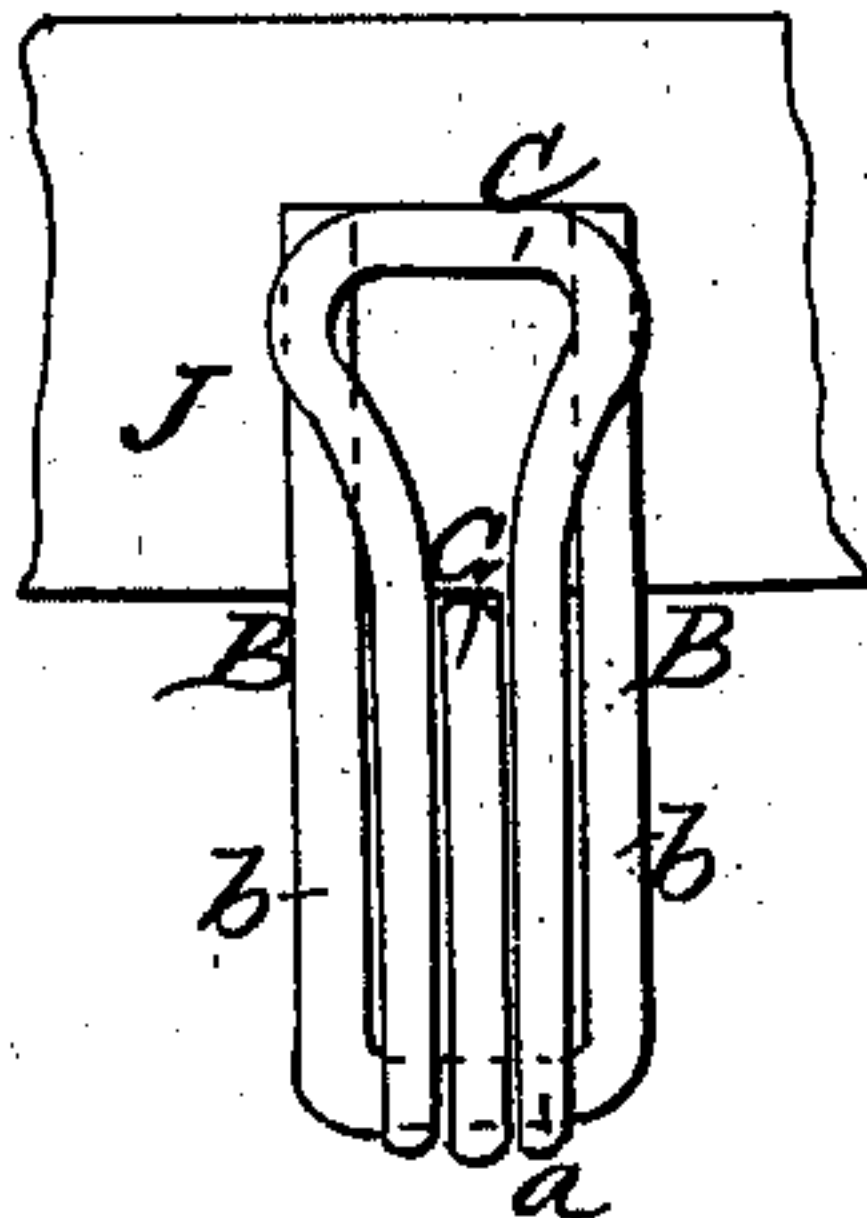
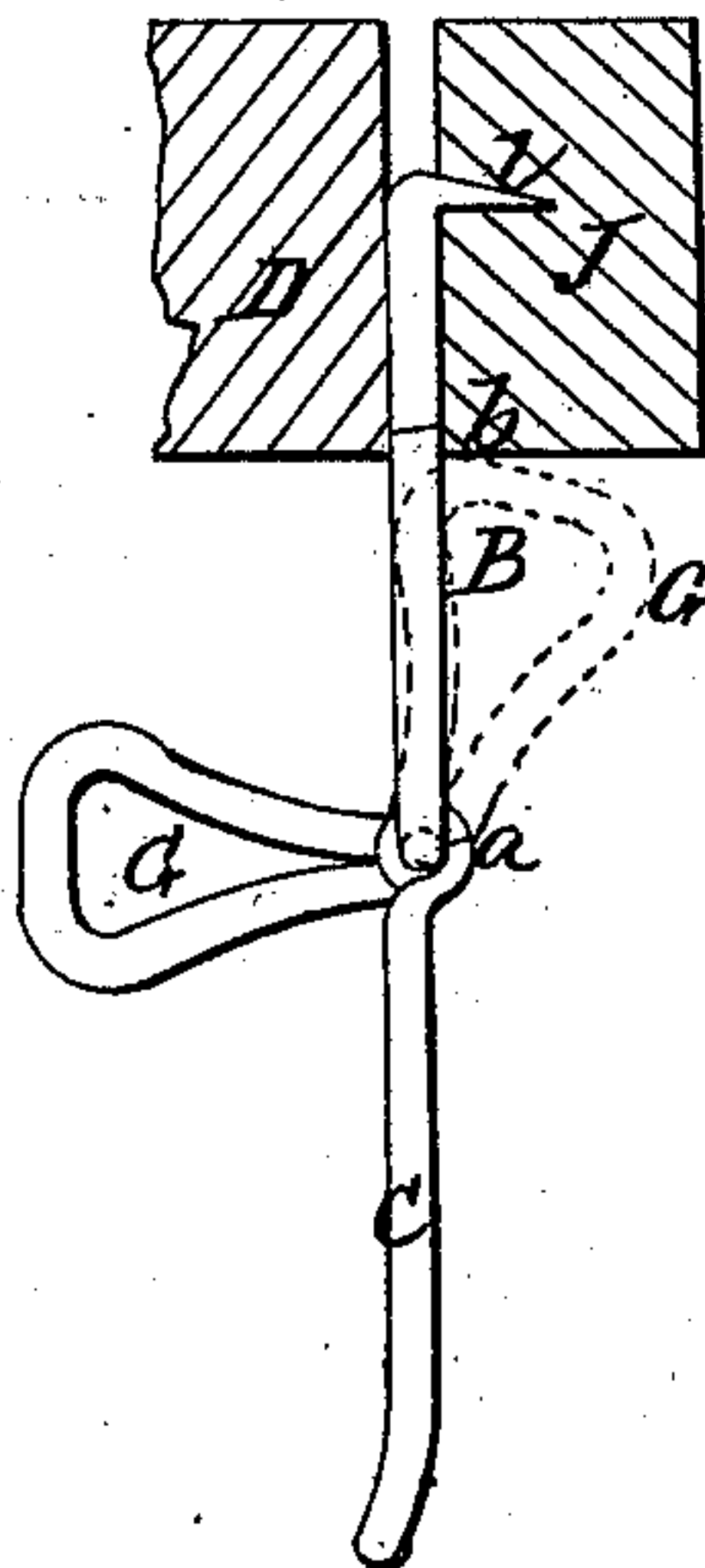


Fig. 5.



UNITED STATES PATENT OFFICE.

BENJAMIN R. EAMES, OF SOUTH NEWRY, MAINE.

PORTABLE DOOR-FASTENER.

Specification of Letters Patent No. 12,675, dated April 10, 1855.

To all whom it may concern:

Be it known that I, BENJAMIN R. EAMES, of South Newry, in the county of Oxford and State of Maine, have invented a new and useful Improvement in Door-Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, forming part of this specification, in which—

Figure 1 is a section of door and jamb, showing fastener in securing position; compensator not inserted. Fig. 2 is a side view of fastener in position shown in Fig. 1. Fig. 3 is a view similar to Fig. 1 showing compensator in use. Fig. 4 is a side view of fastener in position shown in Fig. 3. Fig. 5 is a view showing hooked bar in position, and brace removed from door and jamb.

Similar letters denote the same part.

The invention here considered belongs to the class of detachable door fasteners, made up as general features of a part connecting the fastener to the frame, with guiding, bracing and compensating arrangements. A great defect in most of these fasteners arises from so connecting the brace with the body of the fastener as to give it a vertical movement; the effect of wear in most cases being to loosen the attachment and render the brace liable to fall of itself.

The design of this invention is to obviate all tendency to loosening in the brace, and render the same capable of performing the double functions of brace and gage, besides other advantages which will be fully set forth.

The nature of the invention consists in constructing the main body, or attaching part of the fastener, of a bifurcated hooked bar, having a triangular brace swung on the rear portion of the bar between the jaws of a spring compensator, also movable on said bar; so that by reason of the horizontal movement of the brace, it will act as both brace and gage while its compression between the jaws of the compensator will render its motion at all times sufficiently stiff to prevent self action from loosening.

In the drawing B is the body of the fastener consisting of the two hooked legs *b* connected by the part *a*. On this connecting portion *a*, are swung the brace G and com-

pensator C; the latter formed of two spring legs whose inclination to approach each other clasps the brace G tightly between them and opposes its free movement. These several parts are all made of ordinary wire, formed as above described and shown in the drawing, and are therefore easy of construction and consequently economical.

The operation of this fastener is as follows: The bifurcated hooked bar B is attached to the door frame by pressing the lips *l* into the jamb J in the manner usual with such fasteners; the brace G being in the position shown by red lines in Fig. 5 during the closing of the door D, and thus acting as a certain gage for the position of the attaching bar. When the door is closed, and the lips *l* driven home, the brace G is then moved into the position shown in Fig. 1, and the door is securely fastened. The grasping of this brace by the compensator C effectually prevents its movement about *a* without the application of force on one side; and as the compensator is a spring no amount of wear can change this stiffness in the movement of the brace. When the space between the door and jamb is wide, the compensator has the position shown in Figs. 3 and 4, while the action of the combined gage and brace G is the same.

By this construction of fastener a compact, effective and economical article is produced, and altogether free from the disadvantages of those now in use.

I expressly disclaim hooked bars with separate and vertically moving stops and braces, as such form no part of my invention. But

I do claim as new and of my own invention—

The herein described combination of bifurcated hooked bar B, spring compensator C, and horizontally moving brace G, the compensator and brace movable about the vertical connection of said bar; whereby the self movement of the brace is prevented, while it performs the double function of gage and brace.

In testimony whereof, I have hereunto signed my name before two subscribing witnesses.

BENJ. R. EAMES.

Witnesses:

JOHN L. SMITH,
GEO. PATTEN.