

(No Model.)

M. CAMPBELL.  
ADJUSTABLE HINGE.

No. 279,857.

Patented June 19, 1883.

Fig. 1.

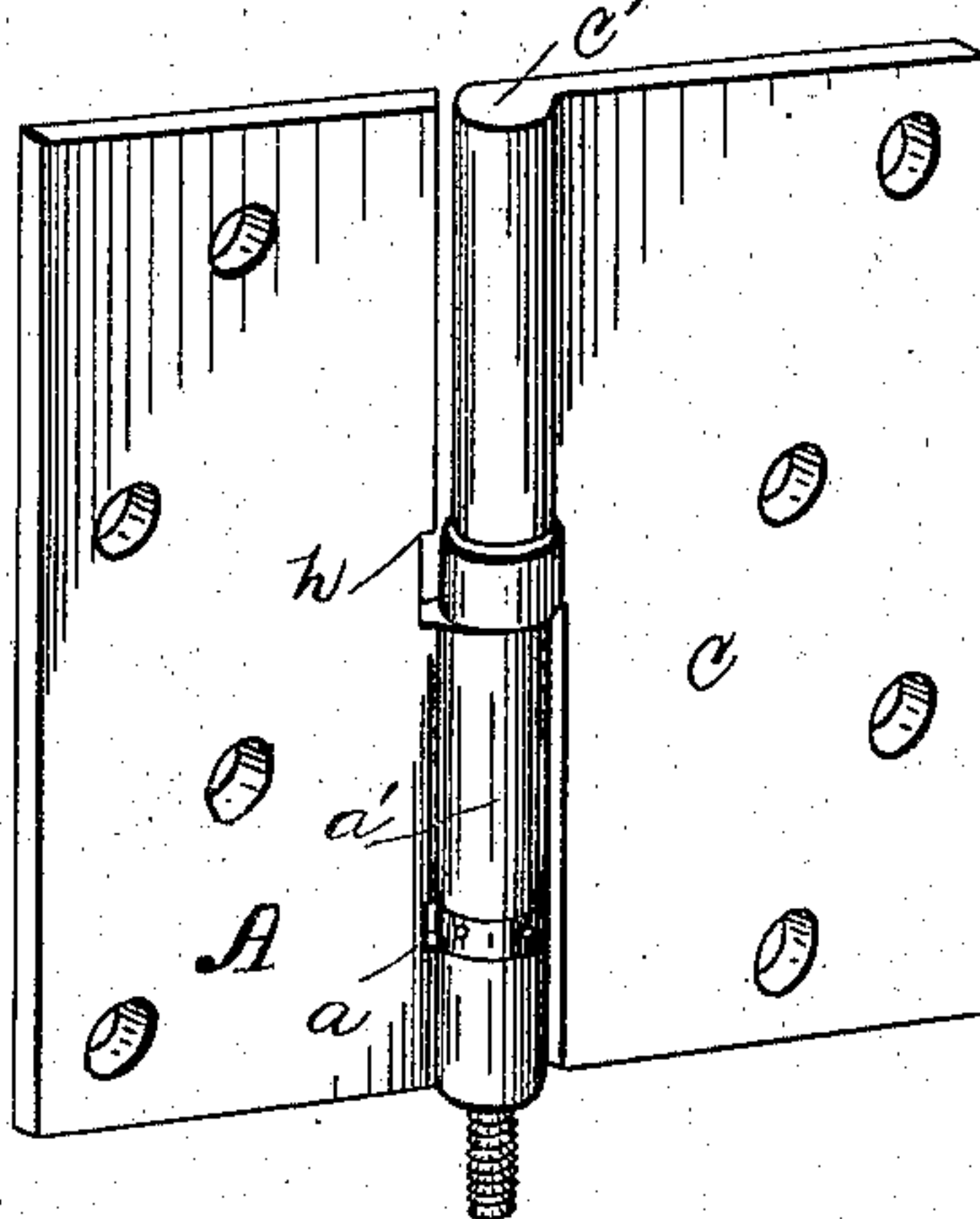


Fig. 2.

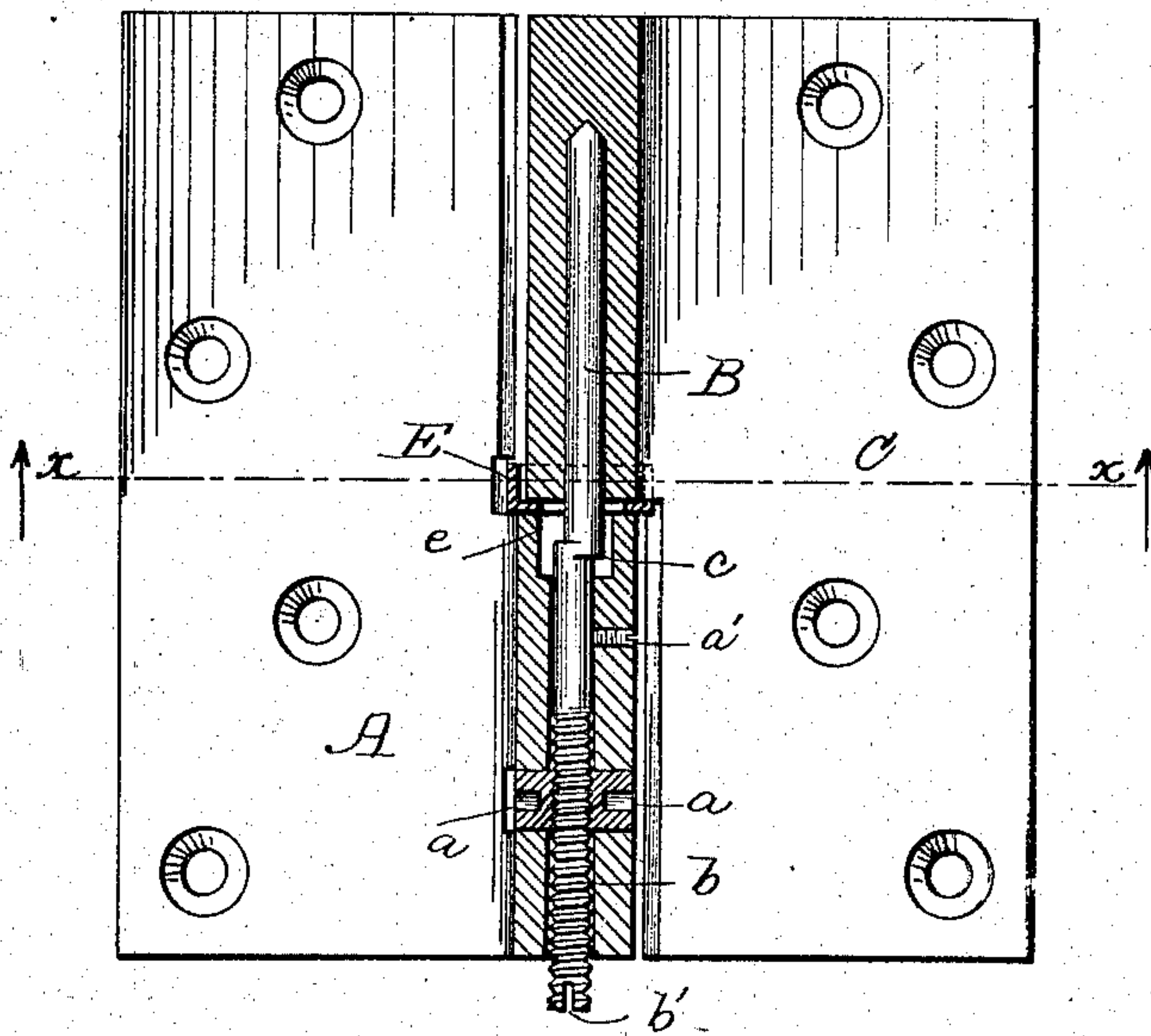


Fig. 4.

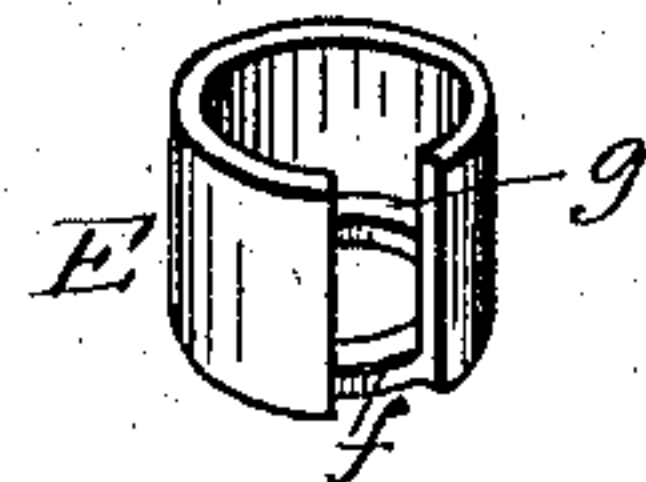


Fig. 5.

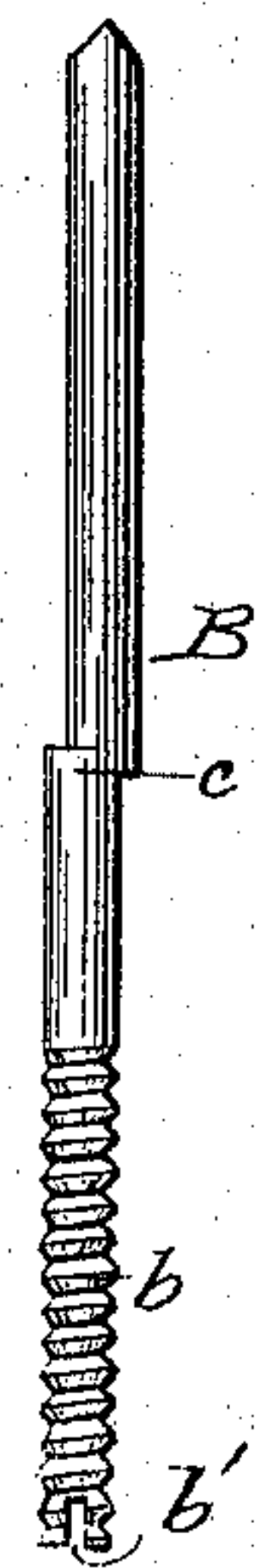
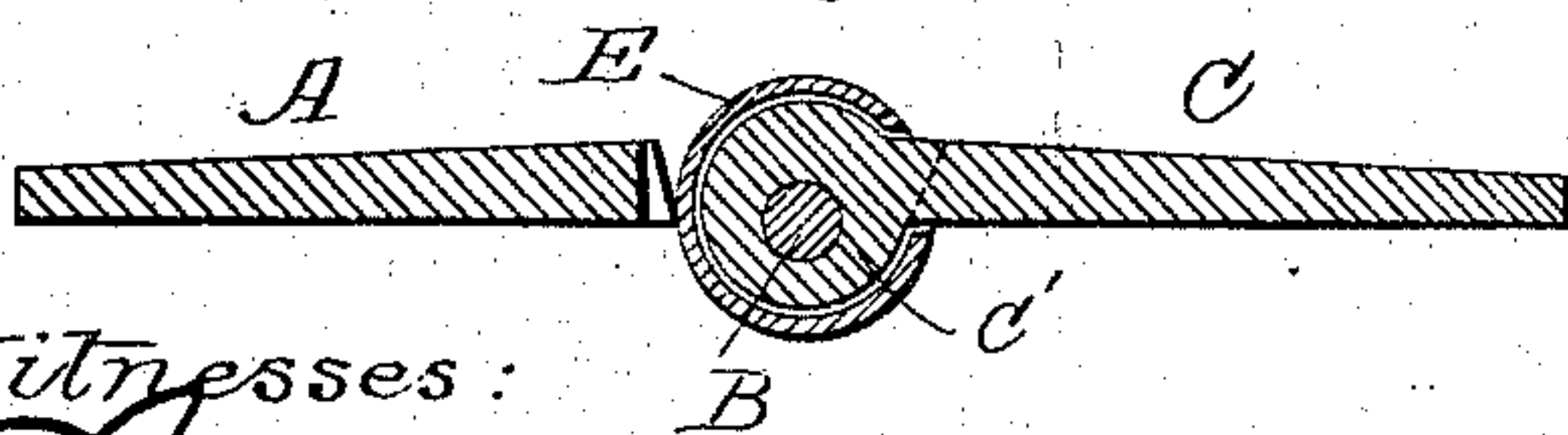


Fig. 3.



Witnesses:

*Wm. Johnson*  
*Lamich Duwall*

Inventor  
*M. Campbell*



# UNITED STATES PATENT OFFICE.

MALCOLM CAMPBELL, OF HOLYOKE, MASSACHUSETTS.

## ADJUSTABLE HINGE.

SPECIFICATION forming part of Letters Patent No. 279,857, dated June 19, 1883.

Application filed July 26, 1882. Renewed May 24, 1883. (No model.)

### *To all whom it may concern:*

Be it known that I, MALCOLM CAMPBELL, a citizen of the United States of America, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Door-Butts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in door-butts, as will be hereinafter set forth, and pointed out in the claims; and its object is to provide a door-butt which is composed of two parts, of simple construction, by means of which a door may be hung upon the same, and which will provide a means for adjusting the door so as to accommodate the casing when the door or casing shrinks or settles, which can be accomplished without removing the door from the hinge.

In the annexed drawings, forming a part of this specification, Figure 1 is a perspective view. Fig. 2 is a front elevation, partly in section. Fig. 3 is a transverse section taken through the line *x x* of Fig. 2. Fig. 4 is a detailed perspective view, and Fig. 5 is a view of the pintle detached.

In the annexed drawings, A is a leaf, which carries the pintle. The butt of this leaf is cut away for the reception of the set-nut *a*, which is circular in shape and corresponds in size with the butt within which it is placed. This nut is provided on its circumference with perforations for the reception of a tool when it is desired to turn the same for the purpose of raising or lowering the pintle. The butt of the leaf A is provided with a set-screw, *a'*, which passes through the pintle-socket and presses upon the pintle. This set-screw is of such a size that when it is in place it will not extend beyond the surface of the butt, thereby rendering it unnecessary to remove a portion from the adjacent leaf. The upper part of the butt on the leaf A is cut away so as to form a recess, *e*, which will allow the pintle,

having an offset, as will be hereinafter described, to turn within said recess.

The pintle B, which is shown detached in Fig. 5 of the drawings, is screw-threaded at its lower portion, *b*, the end being provided with a slot, *b'*. This pintle is provided near its central portion with an offset, *c*, thus forming the upper and lower portions out of line.

The leaf C, as far as external appearances are concerned, is of ordinary construction, and its butt *C'* is provided with a socket to receive the upper end of the pintle B. The socket in this butt is formed eccentric with its walls, as shown in Fig. 3. The leaf C of the hinge is hung upon the pintle in the usual manner. Between the point where the two butts rest upon each other I provide a cap or shell, E, which fits over the butt *C'* and pintle B. This shell has on its base an inwardly-projecting rim, *f*, which is cut away at its central portion, so as to leave a circular opening which is of the same size as the recess *e* in the upper part of the butt of the leaf A. The walls of this shell extend upwardly, and it is provided with a slot, *g*, which fits around the butt *C'*. This slot *g* allows the shell to slide on the leaf C and dispenses with cutting the same away.

The leaf A is cut away, as shown at *h*, so as to allow the shell E to turn freely with the adjacent leaf of the hinge. The shoulder on the upper part of this cut-away portion *h* prevents the shell from rising when the leaf C is adjusted upwardly. By means of this shell the joint of the hinge is covered, and the point of separation, when the leaf C is adjusted or raised upwardly, is hid.

The butt *C'* of the leaf C is provided with an eccentric socket for the purpose of keeping the butt on the center when it rests upon the pintle having the offset.

If desirable, the pintle B may be straight and screw-threaded, as shown, and when thus used the hinge will be only capable of a vertical adjustment.

The operation of adjusting a door hung on my improved hinge or butt is as follows: If the door requires to be raised or lowered in the frame, the set-screw *a'* is loosened, and, by means of a suitably-pointed tool, the set-nut *a* is turned, which operation raises or low



ers the pintle, which carries with it the door to which the adjacent leaf of the hinge is attached.

If it is desirable to adjust the door side-wise or laterally, a screw-driver is inserted in the slot at the lower end of the pintle and turned. This causes the pintle and socket-hinge, which rests upon this pintle, to be thrown in or out.

By means of the hereinbefore-described hinge, it will be seen that doors which are hung in casings which are settled, or in which the doors do not swing clear, may be adjusted vertically or laterally without removing the door from its hinges.

I am aware that it is not broadly new to provide a hinge with an adjustable pintle, and I do not claim such as my invention; but

What I claim as new, and desire to secure by Letters Patent, is—

1. In a door-butt, the leaf A, having recess *e*, set-screw *a'*, and adjusting-nut *a*, in combination with the pintle B, having offset *c* and

screw-threaded portion *b*, substantially as shown.

2. In combination with leaf A, having a pintle with an offset, a leaf having a butt provided with an eccentric socket, substantially as shown.

3. In combination with a hinge capable of vertical adjustment, the joint-coverer E, adapted to slide upon the upper butt, substantially as described.

4. The leaf A, provided with pintle B, having offset *c*, screw-threaded portion *b*, and slot *b'*, adjusting-nut *a*, and set-screw *a'*, in combination with the adjacent leaf having eccentric socket or pintle-bearing and joint-coverer E, substantially as described, and for the purpose set forth.

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

MALCOLM CAMPBELL.

Witnesses:

EDWARD W. CHAPIN,  
JAMES H. WYLIE, Jr.