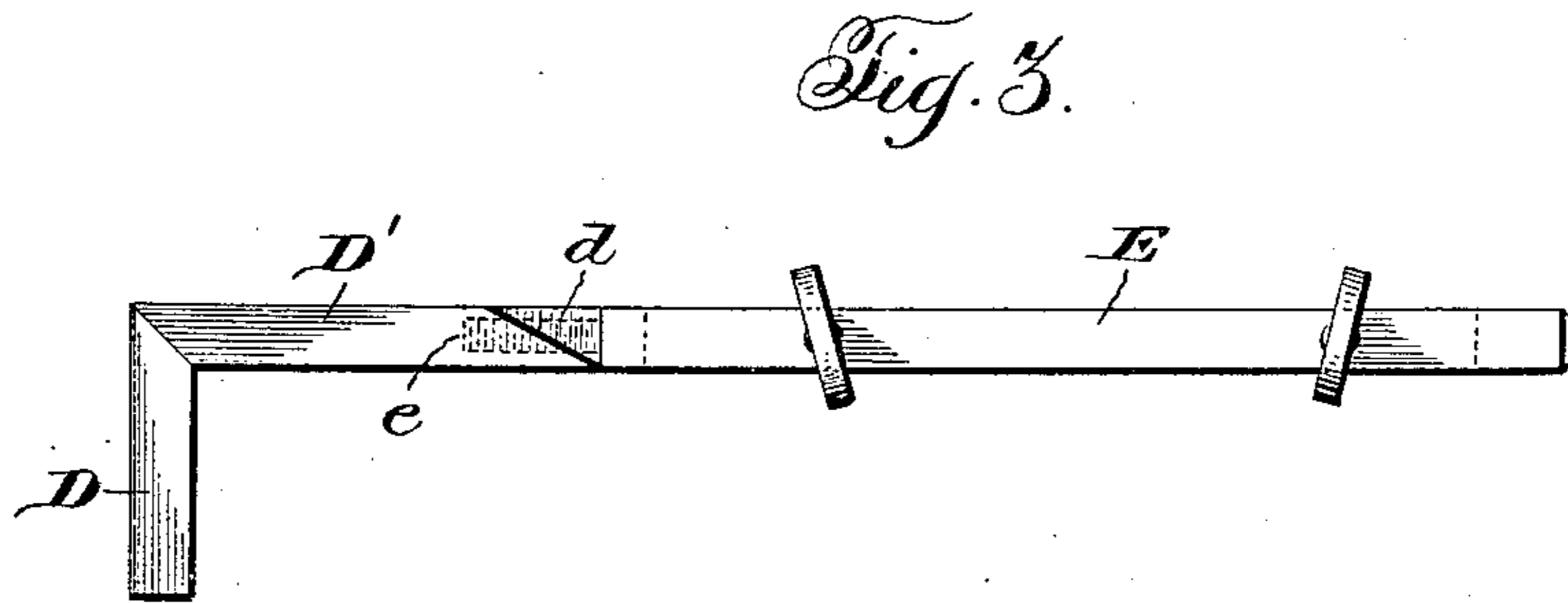
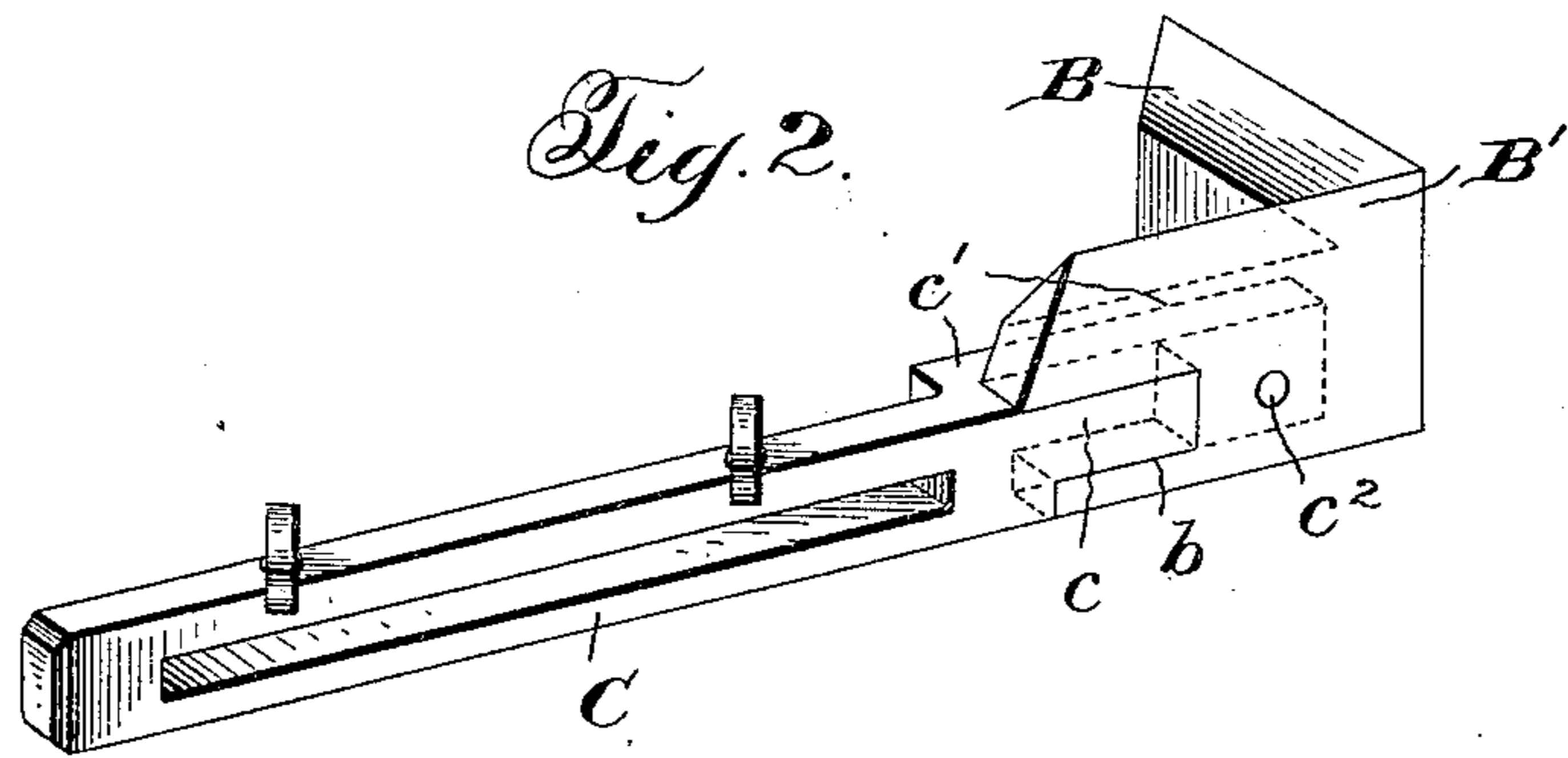
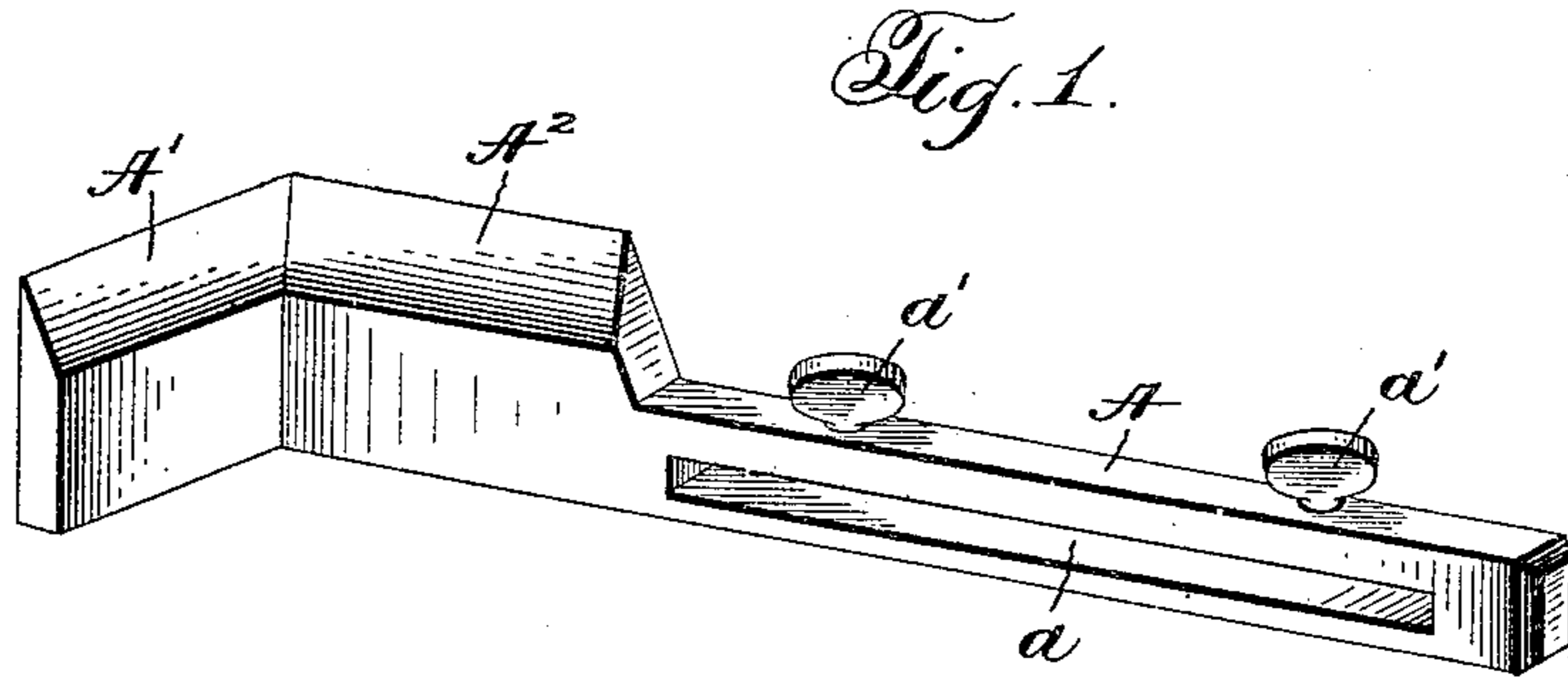


F. J. ZIEGLER.  
 COMBINED HINGE GAGE AND HINGE SEAT CUTTER.  
 APPLICATION FILED NOV. 27, 1908.

946,190.

Patented Jan. 11, 1910.



Witnesses:  
 Jas. Hutchinson,  
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 By Wm. W. Milam Attorneys.

# UNITED STATES PATENT OFFICE.

FREDERICK J. ZIEGLER, OF DECATUR, ILLINOIS.

COMBINED HINGE-GAGE AND HINGE-SEAT CUTTER.

946,190.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed November 27, 1908. Serial No. 464,553.

*To all whom it may concern:*

Be it known that I, FREDERICK J. ZIEGLER, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Combined Hinge-Gage and Hinge-Seat Cutters, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an improvement in a combined hinge gage and hinge seat cutter.

The object of the present invention is the provision of an implement of this character in which a hinge member may be secured so that it can be readily applied to the door or jamb and the same scored to mark the hinge mortise, and can then be used for cutting out the hinge mortise after the door or jamb has been so scored.

A further object of the invention is the provision of a tool for cutting out hinge seats provided with a detachable handle, which handle is so constructed as to constitute a gage for marking the hinge mortise.

Other objects of the invention will be apparent from the detailed description hereinafter, when read in connection with the accompanying drawing forming a part thereof, wherein a preferable embodiment of the invention is shown, and wherein like letters of reference refer to similar parts of the several views.

In the drawings, Figure 1 is a perspective view of the combined gage and hinge seat cutter, Fig. 2 is a similar view illustrating a modified form of the invention, and Fig. 3 is a plan view illustrating still another form of the invention.

Referring now more particularly to the drawings, A designates an elongated metal bar, which is preferably formed of tool steel and which is provided at one end thereof with a relatively short portion A' extending at right angles thereto. The bar A has formed therein an elongated slot a, which extends parallel to the lower edge of said bar, in which slot the hinge member, which it is desired to set, is adapted to be secured by means of suitable set screws a', which are mounted in the upper edge of the bar A and the lower ends of which are designed to be projected into the slot a formed therein. The slot a is so positioned in the bar A that the portion of said bar which forms the lower wall of said slot is equal in thickness

to the thickness of hinges ordinarily used in setting doors. The laterally extending portion A' of the bar A, and a portion A<sup>2</sup> of the bar immediately adjacent thereto are made considerably greater in width than the portion of the bar containing the slot a, so that the upper edges thereof extend for a considerable distance above the top of the portion of the bar having the slot a formed therein and the thumb screws a' secured therein. The upper edges of the laterally projecting portion A' and the portion A<sup>2</sup> of the bar immediately adjacent thereto are beveled on their inner faces to form cutting edges. From this construction, it will be apparent that at one end of the implement I have provided an angular chisel, which may be employed for scoring to the proper depth the sides and back of the mortise after the same has been properly marked and cutting out the mortise after the same has been so scored, the portion of the bar having the slot a therein serving as a handle for the manipulation of the chisel.

In the use of the device, the hinge which is to be set is first placed in the slot a, with the portion of its leaf which is to be seated in the mortise projecting beyond the outer edge of the bar A and is tightly clamped in this position within the slot by means of the thumb screws a'. The bar A is then held with the outer face thereof in contact with the face of the door or jamb and with the underside of the hinge member clamped therein in contact with the edge of the door or jamb, and the door or jamb marked by scoring around the sides and back of the hinge member, the depth of the mortise being marked by scoring along the lower edge of the bar A. The mortise being thus marked, the implement is reversed and by means of a hammer or mallet the angular chisel is utilized to cut out the same. It will be apparent that inasmuch as the portion of the bar A which constitutes the chisel or cutter, is considerably wider than the gage portion, the implement may be utilized to cut all the angles of the mortise, without the hand of the user interfering in any way with the manipulation thereof.

In Fig. 2 of the drawings is illustrated a modified form of the invention, in which the gage which also forms the handle for the implement is detachably secured to the chisel portion thereof. In this form of the invention, the chisel comprises angularly disposed

cutting members B and B', one of which is provided with a recess *b* extending inwardly from the end thereof. The gage member C comprises a slotted bar, which is provided at one end with a projection *c* adapted to project into and closely fit the recess *b* formed in the cutting member and with an extension *c'* adapted to overlie the inner face of said cutting member. A screw *c<sup>2</sup>* serves to detachably secure the gage member to the chisel, said screw passing through the extension *c'* of the gage member and engaging the cutting member positioned therebeneath.

In Fig. 3 is illustrated still another modification of the invention. In this form of the invention, the tool comprises angularly disposed cutting members D and D', the latter of which is provided with a threaded aperture *d* extending inwardly from the end thereof. The gage member comprises a slotted bar E, similar in construction to the gage members heretofore described with reference to Figs. 1 and 2, and is provided at one end thereof with a threaded shank *e*, which is adapted to engage the threaded aperture *e* in the end of the cutting member D', thus permitting a detachable connection between the chisel portion of the tool and the gage portion thereof.

While several preferred embodiments of the invention are shown in the accompanying drawings, it will be understood that the invention is not limited to the precise construction illustrated, as many minor changes may be made thereto without departing from the spirit of the invention as defined in the appended claims.

What I claim is:

1. An implement of the character described comprising a bar provided at one end with a widened portion having one of its edges sharpened to constitute a cutting edge, and with a seat adapted to receive a hinge member, and means for clamping the hinge member to its seat.

2. An implement of the character described provided at one end with an angularly disposed chisel, and a hinge gage fashioned to receive a hinge member extending from one of the members of said chisel, said gage having means associated therewith for clamping a hinge member thereto.

3. An implement of the character described comprising a bar provided at one end with a widened portion having its upper edge sharpened to constitute a cutting edge,

said bar being provided with an elongated slot adapted to receive a hinge member and thumb screws secured in said bar and adapted to be projected into said slot.

4. An implement of the character described comprising a bar provided with a hinge seat therein and having a laterally extending portion projecting from one end thereof, the edges of said laterally extending portion and the portion of the bar immediately adjacent thereto extending above the portion of the bar provided with the hinge seat and being beveled on their inner faces to constitute cutting edges.

5. An implement of the character described comprising angularly disposed cutting members, a slotted bar extending from one of said cutting members and positioned below the plane of the edge thereof, and clamping screws secured in said bar and adapted to be projected in said slot.

6. An implement of the character described comprising angularly disposed cutting members, and a slotted bar of less width than the cutting members extending from one of said cutting members and means for clamping a hinge member in the slotted portion of said bar.

7. An implement of the character described comprising angularly disposed cutting members, and a handle detachably secured to one of said cutting members and positioned below the plane of the cutting edge thereof, said handle being provided with a seat therein for a hinge member.

8. An implement of the character described comprising a chisel, a handle detachably secured thereto and provided with an elongated slot adapted to receive a hinged member, and clamping screws threaded in said handle and adapted to be projected into said slot.

9. An implement of the character described comprising a chisel formed of angularly disposed cutting members, a slotted bar removably secured to one of the cutting members of the chisel and positioned below the plane of the cutting edge thereof, and a clamping member carried by said bar and adapted to be projected into the slot therein.

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

FREDERICK J. ZIEGLER.

Witnesses:

W. S. HURD,  
THOMAS B. JACK.