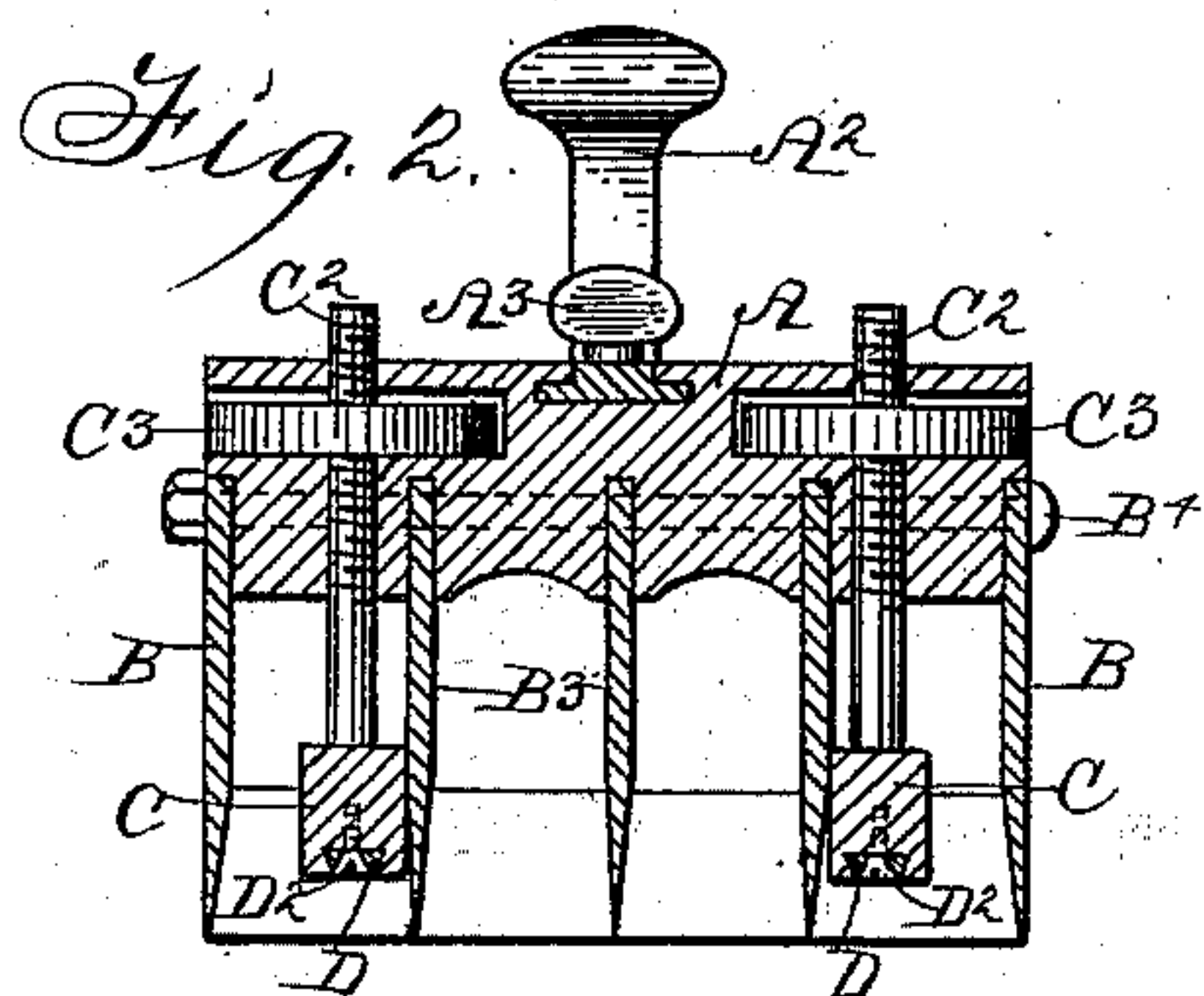
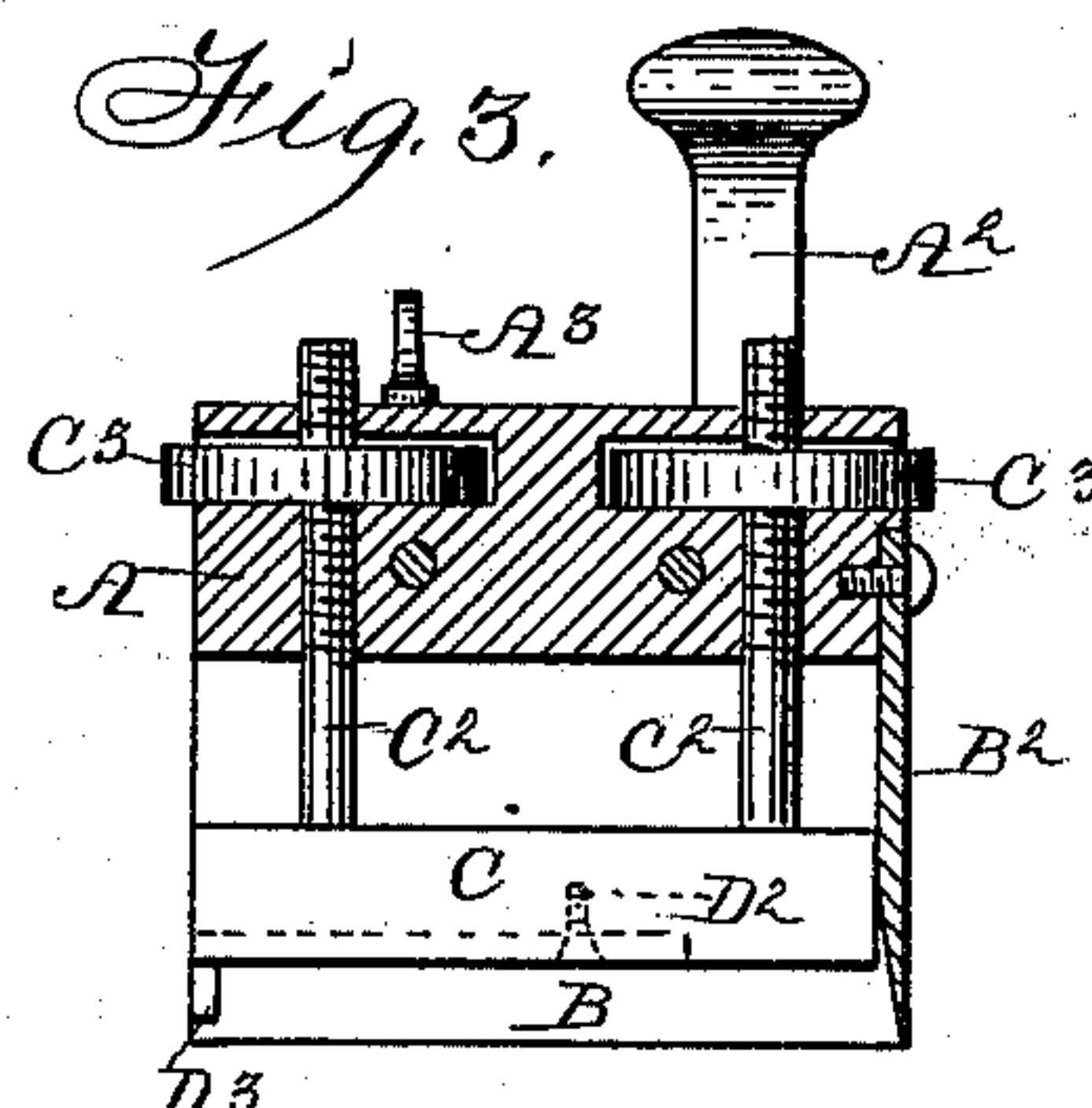
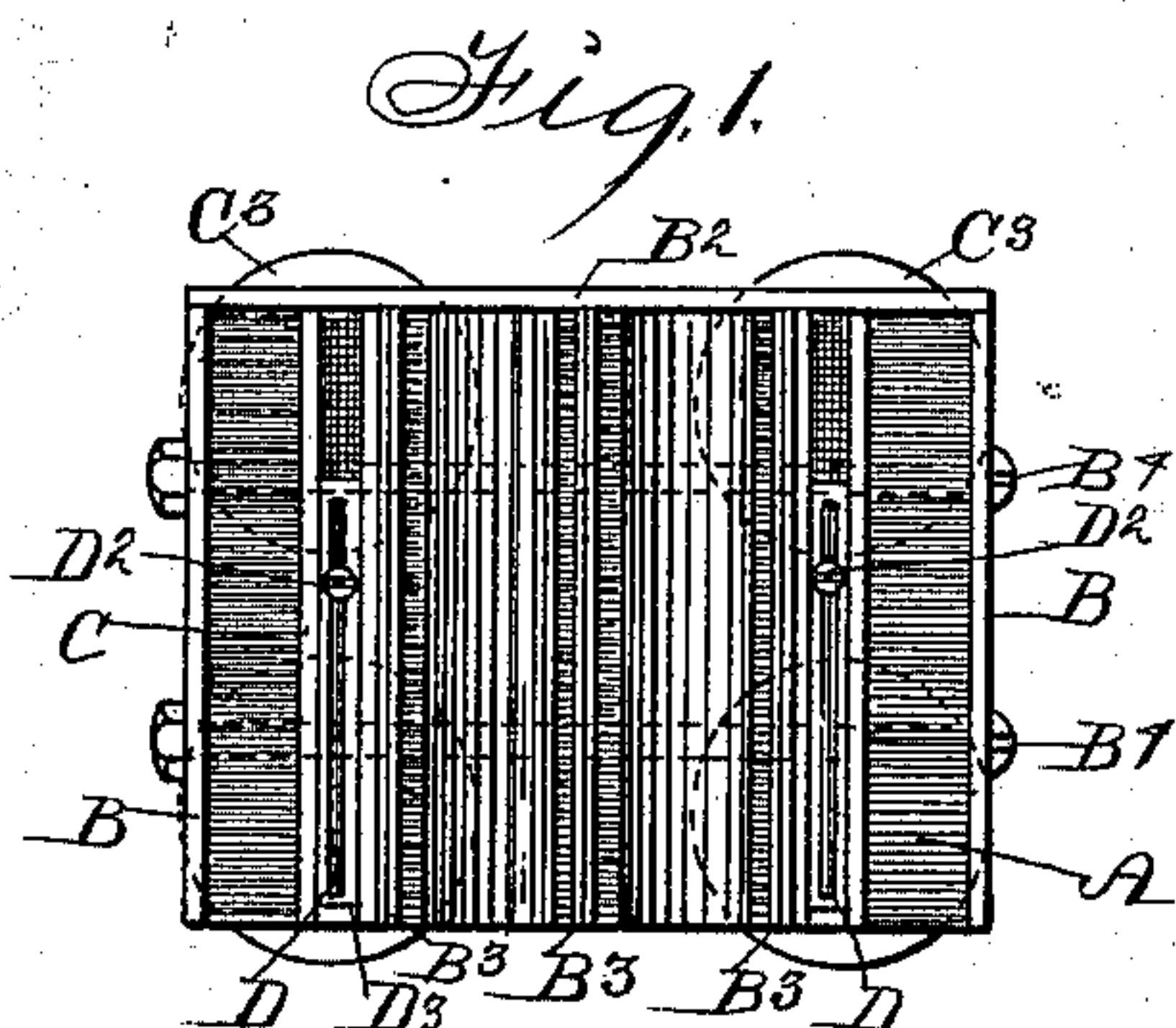


(No Model.)

G. D. SWEENY.
TOOL FOR SETTING HINGES.

No. 560,869.

Patented May 26, 1896.



Witnesses: } Inventor: George D. Sweeney,
C. A. Wilcox }
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UNITED STATES PATENT OFFICE.

GEORGE D. SWEENEY, OF EWART, IOWA.

TOOL FOR SETTING HINGES.

SPECIFICATION forming part of Letters Patent No. 560,869, dated May 26, 1896.

Application filed March 31, 1894. Serial No. 505,977. (No model.)

To all whom it may concern:

Be it known that I, GEORGE DANIEL SWEENEY, a citizen of the United States, residing at Ewart, in the county of Poweshiek and State of Iowa, have invented a new and useful Apparatus for Setting Hinges, of which the following is a specification.

The object of this invention is to provide a tool having knife-blades fixed in its bottom and adapted to be set to any desirable length, width, or depth and to be operated to form a cut by means of the impact of a hammer upon its upper end.

With this object in view my invention consists in the construction of a device adapted to make a cut on three sides and the arrangement and combination therewith of means for predetermining the length, width, and the depth of said cut, as hereinafter fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a bottom view of the device for making the cuts. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view through the line 3 3 of Fig. 1.

Referring to the accompanying drawings, the reference-letter A is used to designate a rectangular block having a handle A² projecting upwardly from its top and arranged to slide transversely thereof, a set-screw A³ being provided whereby said handle may be held at any desirable position, for the purposes hereinafter explained. B B indicate two knife-blades placed at the ends of said block and projecting downwardly therefrom. B² indicates a like knife-blade detachably fixed to one of the sides of said block. B³ indicates knife-blades inserted in slots formed in the bottom of the block A and extended transversely thereof at suitable distances apart. All of the aforesaid knives that are extended transversely of said block are connected therewith by means of the bolts B⁴, extended longitudinally through the said block and through each of said knives.

When it is desired to make a smaller cut than would be made by the knife-blades B B, one of said knife-blades is removed, and also one or more of the knife-blades B³, so that if it is desirable to make a cut of just one-half

the length that would be made by the device as shown in the drawings two of the knife-blades at one end are removed, thus allowing but three blades to remain, and the central one and one of the end ones forming the ends of the cut.

The knife-blade B³ at the side of the block may be replaced by a knife-blade of the proper length, if desired, although it is not objectionable to allow said blade to cut in a direction parallel with the grain of the wood some distance beyond the point where it is desired to take out the chip.

To gage the depth of the cut I have provided the stops C C, connected with the block A in such a manner as to be readily adjusted in a vertical plane by means of the screw-threaded rods C², extended upwardly through the block, and the thumb-nuts C³, having internal screw-threads adapted to admit the screw-threaded rods and placed in suitable slots formed in the corners of the blocks with their edges projecting beyond the edges of the blocks, so that said thumb-nuts may readily be rotated and the stops C C elevated or lowered, as desired. To gage the width of the cut I have provided the slides D, placed in grooves formed in the lower edges of said stops C C and adapted to slide longitudinally thereof and be set in any desirable position by means of the screws D². The lugs D³ thereof project downwardly beyond the surface of the stops C C and are adapted to engage one side of a door.

In practical operation the length and width of the hinges to be set in the edge of a door are first determined. Then the knife-blades that extend transversely of the block are arranged so as to make a cut of the same length as the hinge. This is done by removing as many blades as are necessary from one end of the block. The depth which it is desired to make the cut is then determined by setting the stops C C at the desirable distance from the cutting edges of the blades, and to gage the width of the cut the slides D D are set so that when the lugs D³ thereof engage the side of a door the knife-blade B² will form the inner boundary of the cut. The part A² is then moved transversely of the block, so as to stand in approximate center of the cut, and the said

part may then be struck with a hammer or the like and the knife-blades driven into the edge of a door.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States therefor, is—

1. In an apparatus for setting hinges, a device for outlining the cut, comprising a suitable block, a knife-blade detachably fixed to one side thereof, two knife-blades placed at the ends thereof, one or more knife-blades located between the knife-blades on the said ends and means for detachably connecting the said knife-blades with the block, for the purposes stated.

2. In an apparatus for setting hinges, a device for outlining the cut, comprising a suitable block, a knife-blade fixed to one side thereof and projecting downwardly therefrom, two knife-blades placed at the opposite ends of said block, one or more knife-blades placed between the knives at the ends extended transversely of the block and projecting downwardly therefrom, means for detachably connecting the said knife-blades with the block, two stops placed between the aforesaid knives, screw-threaded rods projecting upwardly therefrom through the said blocks and thumb-nuts on the said screw-threaded rods whereby the said stops may be adjusted relative to the block, for the purposes stated.

3. In an apparatus for setting hinges a device for outlining the cut, comprising a suitable block, a knife-blade fixed to one side thereof and projecting downwardly therefrom, two knife-blades placed at the opposite ends of said block, one or more knife-blades placed between the knives at the ends, extended transversely of the block and projecting downwardly therefrom, means for detachably connecting the said knife-blades with

the block, two stops placed between the aforesaid knives, screw-threaded rods projecting upwardly therefrom through the said blocks and thumb-nuts on the said screw-threaded rods whereby the said stops may be adjusted relative to the block, slides adjustably connected with the aforesaid stops and arranged to move laterally of the block and lugs projecting downwardly from the ends of said slides opposite to the knife-blade fixed to the side of the block, for the purposes stated.

4. In an apparatus for setting hinges a device for outlining the cut, comprising a suitable block, a knife-blade fixed to one side thereof and projecting downwardly therefrom, two knife-blades placed at the opposite ends of said block, one or more knife-blades placed between the knives at the ends extended transversely of the block and projecting downwardly therefrom, means for detachably connecting the said knife-blades with the block, two stops placed between the aforesaid knives, screw-threaded rods projecting upwardly therefrom through the said blocks and thumb-nuts on the said screw-threaded rods whereby the said stops may be adjusted relative to the block, slides adjustably connected with the aforesaid stops and arranged to move laterally of the block and lugs projecting downwardly from the ends of said slides opposite to the knife-blade fixed to the side of the block, a slide placed in the top of said block and adapted to move laterally thereof, a handle or knob fixed to said slide and a set-screw whereby said slide may be fixed in any desirable position, all arranged and combined substantially in the manner set forth and for the purposes stated.

GEORGE D. SWEENY.

Witnesses:

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