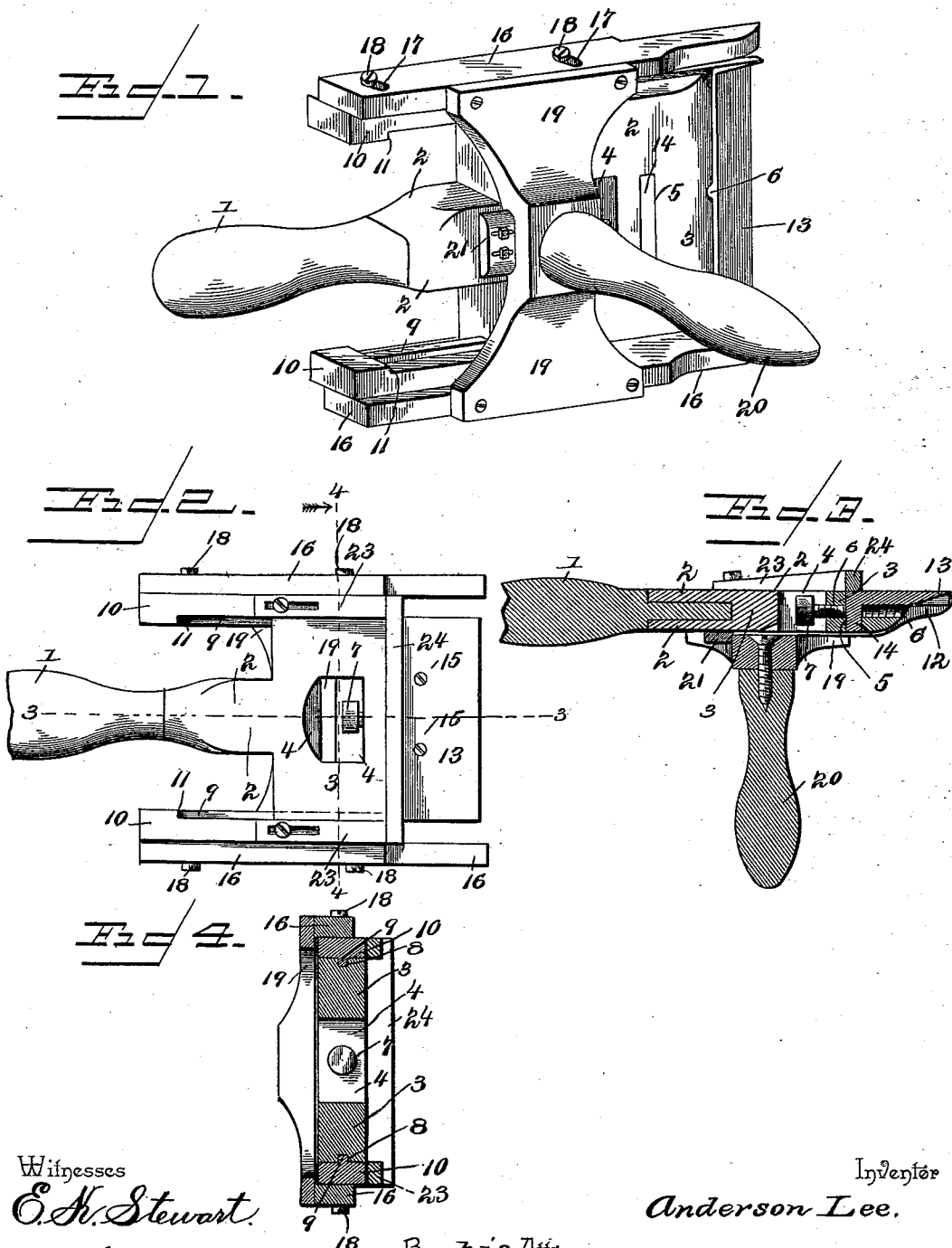


(No Model.)

A. LEE.
HINGE SETTING MACHINE.

No. 507,914.

Patented Oct. 31, 1893.



Witnesses

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ANDERSON LEE, OF EVANSVILLE, INDIANA.

HINGE-SETTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 507,914, dated October 31, 1893.

Application filed September 15, 1892. Serial No. 445,970. (No model.)

To all whom it may concern:

Be it known that I, ANDERSON LEE, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented a new and useful Hinge-Setting Machine, of which the following is a specification.

My invention relates to improvements in hinge setting or mortising machines, and it has for its object to provide a device of this character with adjustable parts, to adapt the same for making cuts or gains of various depths and widths to receive hinges of various sizes.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings—Figure 1 is a perspective view of a device embodying my invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a longitudinal section upon the line 3—3 of Fig. 2. Fig. 4 is a transverse section upon the line 4—4 of Fig. 2.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a wooden handle fitted into a stock 2 which is constructed of metal and is integral with a head 3 of substantially T-shape. This head is provided with an opening 4 extending therethrough adjacent to the stock 2, a slot 5 in advance of said opening and arranged transversely, and a screw-threaded opening 6 arranged parallel with the plane of the head and extending from the front wall of the opening 4 to the front end of the head. Fitting in this screw-threaded opening 6 is a set-screw 7 adapted to be inserted and operated through the opening 4. The head is provided upon its opposite side edges with grooves 8 to receive ribs 9 which are carried by the guide-bars 10, the head being adapted to be reciprocated between and parallel with the plane of said guide-bars. The guide-bars are provided at their rear ends with stop shoulders 11 to limit the backward movement of the head. The front portion of the head 3 is cut away from the under side, as shown at 12, to receive a cutter 13 which is provided with a depending lug

14 adapted to engage the slot 5. Said lug is engaged to secure the cutter in place by means of the set-screw 7.

A number of knives may be used in connection with the machine and will be made proportionate to the different sizes of hinges. In Fig. 2 I have shown countersunk screws 15 which may be used in securing the knife or cutter to the head and in some instances will be used independently of other fastenings.

In connection with the above described construction I employ the supporting frame comprising the side-bars 16 provided with transverse or vertical slots 17 and a connecting plate 19 which carries a hand-hold 20. Set-screws 18 pass through the slot 17 and engage the guide-bars 10 whereby said guide-bars may be adjusted with relation to the supporting frame in a direction perpendicular to the plane of movement of the cutter.

It will be understood that in operating the device the front ends of the side-bars of the supporting frame are rested upon the surface or edge of the door in order to steady the machine and hold the same in proper position while the head which carries the cutter is reciprocated, and hence in order to produce different depths of cuts the relative positions of the supporting frame and the guide-bars 10 must be varied by means of the setting devices including the screws 18 and slots 17.

An adjustable block 21 is fixed to the upper side of the head in rear of the connecting plate 19 in order to limit the forward movement of the cutter. This block is made adjustable in order that wear upon the knife may be compensated for to enable a given depth of cut to be made.

To the rear or underside of the machine is attached an adjustable gage comprising slotted side-bars 23 which are connected to the guide-bars 10 and a front cross-bar 24, such guide being adapted to bear against the surface of the door to regulate the length of the cut.

The operation of the machine will be readily understood from the foregoing description, and it will be obvious that it may be employed for inserting locks, keepers, and other devices as well as hinges. The adjustability and detachability of the parts com-

prising the device facilitate the substitution of members when injured or worn.

It will be understood that various changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of my invention.

Having thus described the invention, what is claimed as new is—

- 10 1. In a hinge setting machine, the combination with a supporting frame, guide-bars carried by said frame and capable of adjustment in a direction perpendicular to the plane thereof, a cutter-bearing head slidably fitted
- 15 for reciprocation between such guide-bars, and stops to limit the rearward and forward movements of the head, of a gage carried by said guide-bars below the plane thereof to engage the surface of the door below the cut
- 20 and capable of adjustment in a direction par-

allel with the plane of movement of the head to regulate the length of the cut, substantially as specified.

2. In a hinge setting device, the combination with a supporting frame, of guides carried thereby, a reciprocating cutter-bearing head mounted between said guides, and a gage comprising slotted side-bars 23 and a connecting bar 24, the slots of said side-bars being engaged by set-screws carried by the guide-bars, and engaging the lower edges thereof, whereby the gage lies below the plane of the guide bars substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ANDERSON LEE.

Witnesses:

THOMAS PECK,
SETH PRITCHETT.