W. THOMPSON.

TOOL FOR MARKING AND INCISING HINGE BUTT RECESSES.

APPLICATION FILED FEB. 21, 1918.

1,295,386. Patented Feb. 25, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

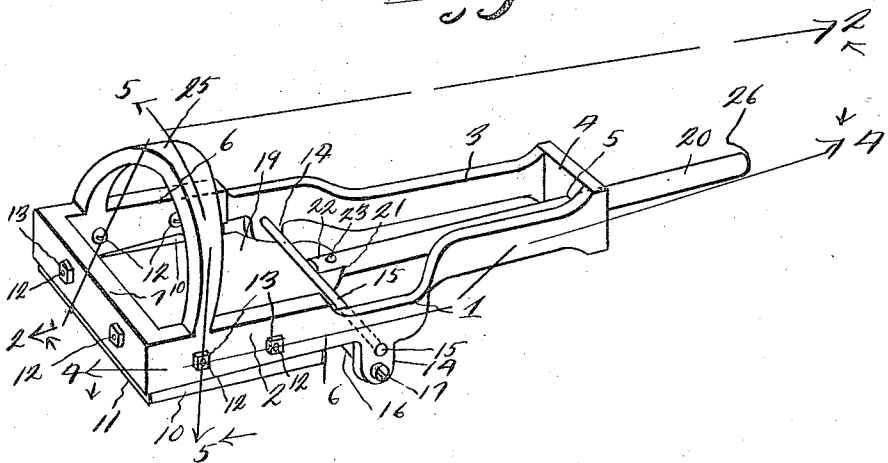


Fig. 2.

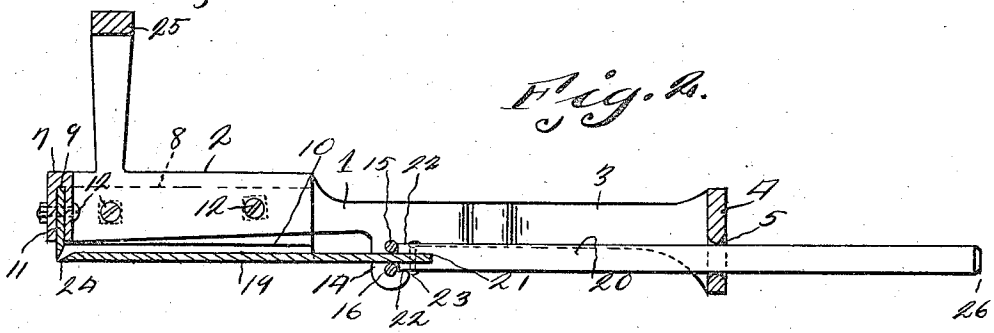
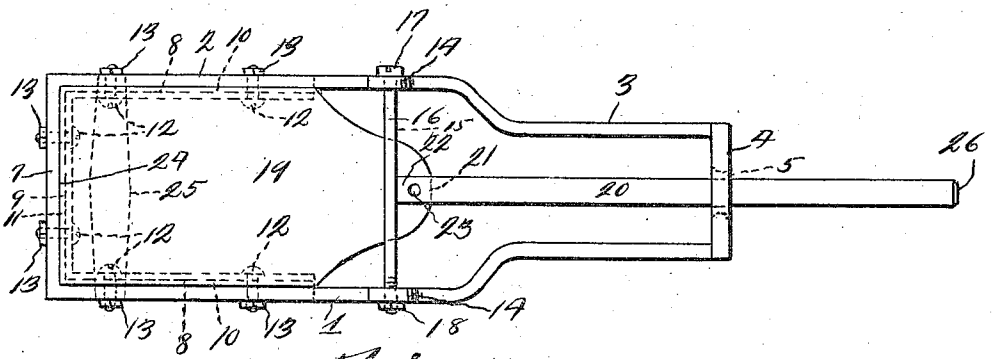


Fig. 3.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

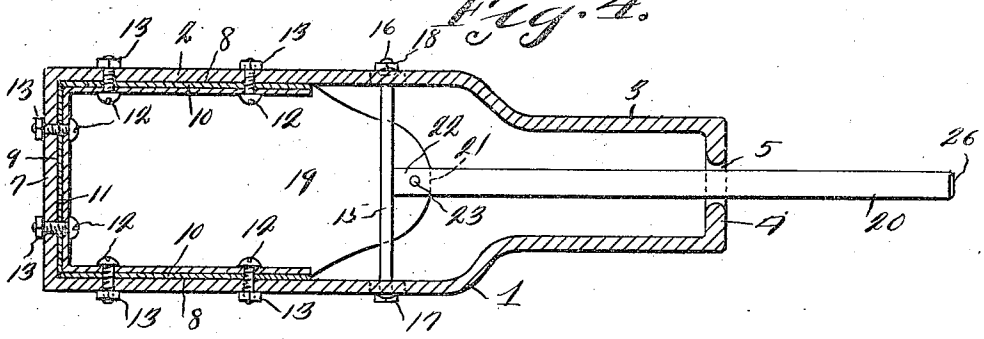
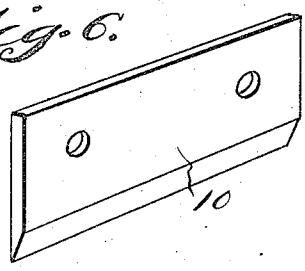


Fig. 6.



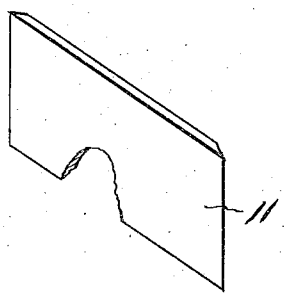


Fig. 7.

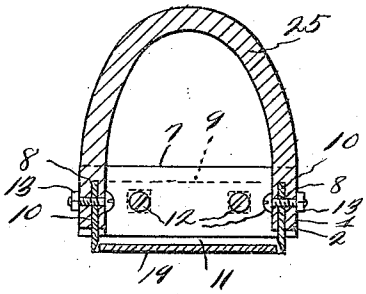


Fig. 5.

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UNITED STATES PATENT OFFICE.

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TOOL FOR MARKING AND INCISING HINGE-BUTT RECESSES.

1,295,386. Specification of Letters Patent. Patented Feb. 25, 1919.

Application filed February 21, 1918. Serial No. 218,479.

To all whom it may concern:

Be it known that I, WILSON THOMPSON, a citizen of the United States, residing at Flippin, in the county of Marion, State of Arkansas, have invented a new and useful Tool for Marking and Incising Hinge-Butt Recesses; 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.

This invention relates to an improved tool for marking and incising hinge-butt recesses in the stiles and jambs of door frames, doors, blinds, window frames, or other like articles and swinging members, and one of the objects of the invention is to provide an efficient and simple labor saving device of this kind which is practical.

One of the objects of the invention is to provide an improved frame, the sides and one end of a rectangular portion of which being U-shaped in cross section to receive marking and cutting knives, whereby upon imparting hammer blows on the frame laterally, the cutting knives may be forced into the door jamb or stiles of the edges of the blind or door, so as to mark the size and depth of the mortise or recess.

A further object of the invention is the provision of an abutment arch on said frame to receive the hammer blows.

A further object of the invention is the provision of means consisting of a reciprocating gouge cutting knife mounted in guides of the frame for gouging or cutting out of the mortise or recess.

In practical fields the details of construction may necessitate alterations falling within the scope of what is claimed.

The invention comprises further features and combination of parts as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—

Figure 1 is a view in perspective of the improved tool for marking and incising hinge-butt recesses constructed in accordance with the invention.

Fig. 2 is a longitudinal sectional view on line 2—2 of Fig. 1.

Fig. 3 is a plan view of the tool.

Fig. 4 is a sectional view on line 4—4 of Fig. 1.

Fig. 5 is a sectional view on line 5—5 of Fig. 1.

Fig. 6 is a detail view of one of the cutting knives of one of the sides of said frame.

Fig. 7 is a detail view of the cutting knife at one end of the frame.

Referring more especially to the drawings, 1 designates a frame, the portion 2 of which is rectangular in plan view, while the portion 3 is narrower and has its end bar 4 provided with a guide opening 5. The greater portions of the sides 6 of the part 2 of the frame and the end bar 7, are each U-shaped in cross section, thereby providing channels 8 and 9 of the sides 6 and 7 respectively for the cutting knives 10 and 11. The arrangement of the knives is U-shaped, so that when the frame is disposed adjacent the jamb or the edge of the door and hammer blows imparted on the frame, the cutting edges of the knives will mark the size and depth of the mortise or recess so as to correspond with and receive the leaf of the hinge (not shown). Suitable bolts 12 pass through the sides and the end piece of the portion 2 of the frame and are provided with nuts 13, to hold the knives securely in the channel. Corresponding edges of the sides 6 of the portion 2 of the frame are provided with oppositely disposed lugs 14, which receive the spaced rods 15 and 16. The rod 15 is riveted in the lugs, whereas the rod 16 has a headed end 17 and a nut 18 at its other end, to hold the same in place. A cutting or gouging knife 19 of a width to fit and to be guided between the side knives 10, that is between and adjacent the cutting edges of said side knives, is guided between the spaced rods 15 and 16. This gouging or cutting knife has a shank 20. The shank is bifurcated as shown at 21 to receive the small or contracted end of the gouging or cutting blade. The ends of the forks are designed to abut the rods 15 and 16, whereby the cutting edge 24 of the knife 19 may be limited an infinitesimal distance from the cutting edge of the knife 11, thereby avoiding dulling of either of the cutting edges. The shank 20 is mounted in the guide opening 5 of the end piece 4 of the frame. This opening 5 is a trifle elongated in the direction of the length of the end piece 4, so as to permit of the slight lateral play of the shank, but the width of the opening 5 is such that the shank 20 will fit neatly therein, so as to guide the cutting knife 19 true in its movements, so as to prevent the cutting

edges 24 from contacting with the cutting knife 11. Arching from one side piece to the other of the end portion 2 of the frame is a semi-circular arch member 25, extending laterally from the frame. In cutting hinge-butt mortises or recesses, the frame is placed so that the cutting edges of the knives 10 and 11 will engage the jamb or the edge of the door. Hammer blows are then imparted on the arch 25, causing the knives to cut into the jamb, whereby the depth of the mortise may be cut. After cutting the depth of the mortise, the gouging knife having been previously withdrawn to its outermost position, hammer blows are imparted to the extremity 26 of the shank, causing the cutting edge 24 of the knife 19 to gouge or cut out the filling of the mortise or recess, according to the thickness of and for the purpose of receiving a hinge leaf (not shown). The cutting or gouging knife 19 may be easily removed, as well as the knives 10 and 11, whereby they may be sharpened. To remove the knife 19 the bolt 17 is removed, in which case the shank of the knife may be withdrawn from the opening 5. To remove the knives 10 and 11 the bolts 12 are removed.

The invention having been set forth what is claimed as new and useful is:—

In a hinge-butt recess cutting tool, the combination with an elongated skeleton frame comprising a wide rectangular portion at one end and a contracted loop shaped handle portion at the other end, the sides and ends of said wide rectangular portion having a contiguous channel, cutting knives secured in said channel; a gage or cutting knife guided between the lower edges of the side knives, a pair of transverse spaced bracing and guide rods connecting between the sides of said rectangular portion, and between which rods said gage knife is additionally guided, a handle guided in the end of the contracted loop or handle of said frame, the inner end of the last named handle being connected to the gage knife and adapted to abut said guide rods, whereby the cutting end edge of the gage knife is prevented from contacting with the cutting edge of the end knife of the rectangular portion of the frame, and an abutment arch projecting laterally from the sides of the rectangular portion of the frame to receive hammer impacts, whereby the side and end knives may be driven into the jamb.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILSON THOMPSON.

Witnesses:
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E. J. MCBEE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."