Nov. 29, 1960 H. A. HONN 2,961,773

ADJUSTABLE GAGE MARKER

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Fig. 1.

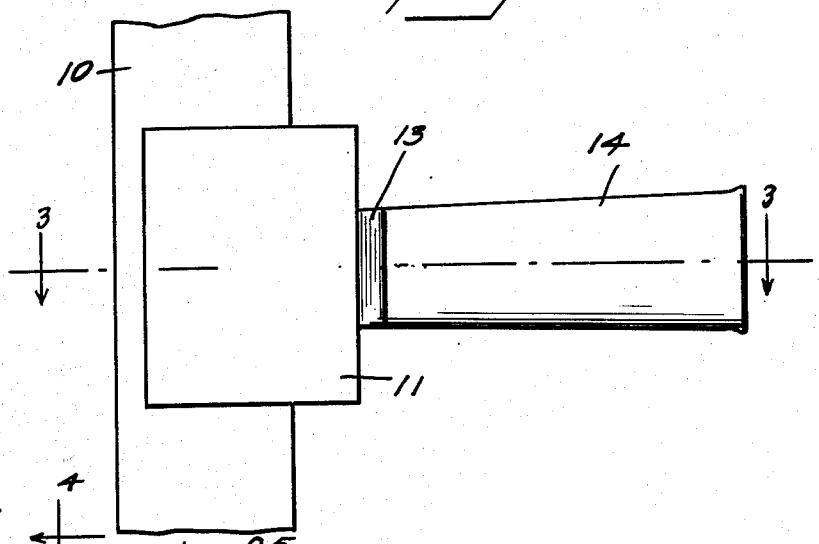

Fig. 2.

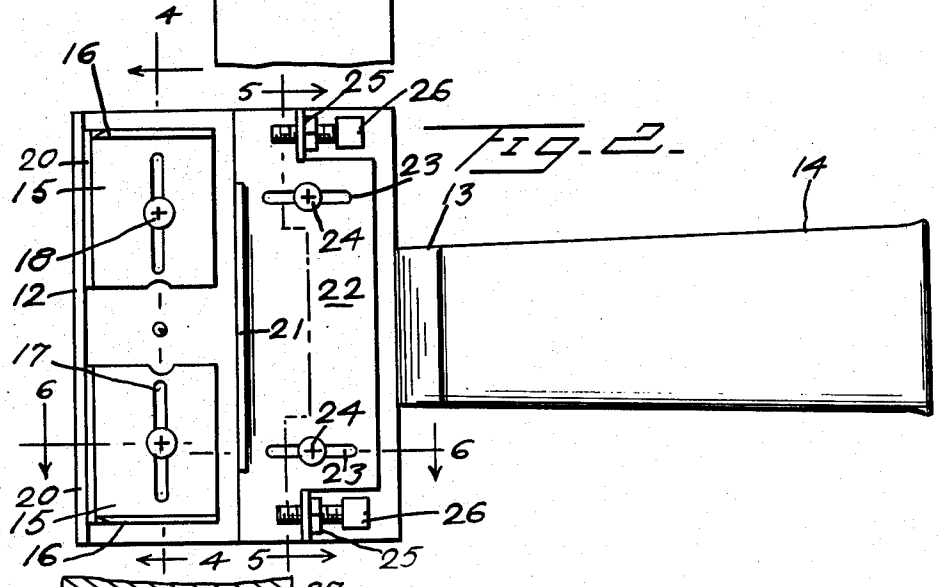

Fig. 3.

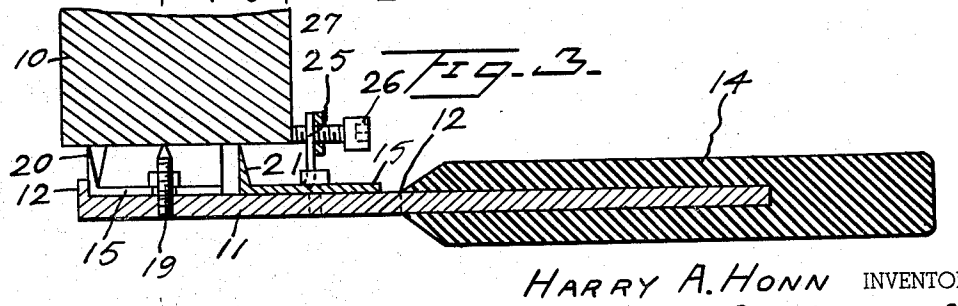

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Fig. 4.

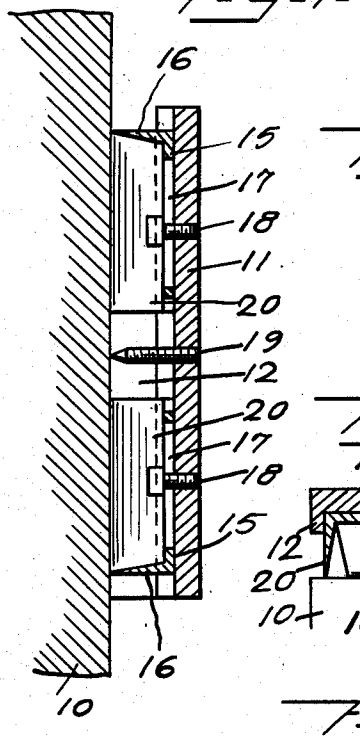


Fig. 7.

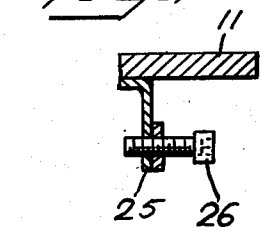


Fig. 6.

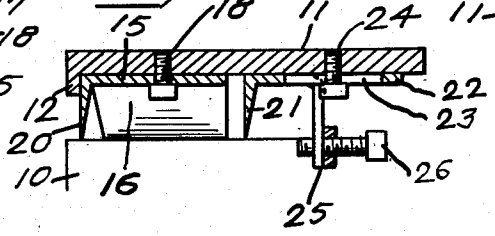


Fig. 5.

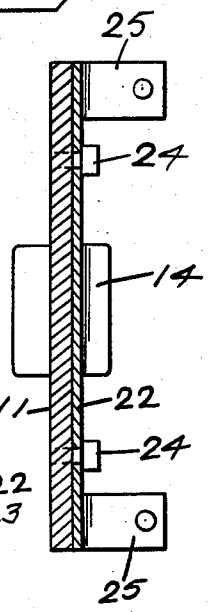


Fig. 8.

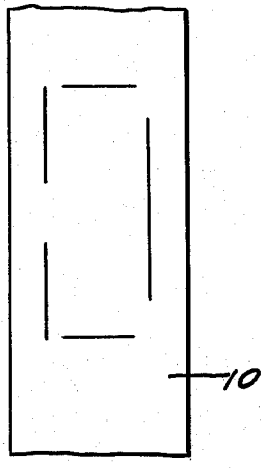
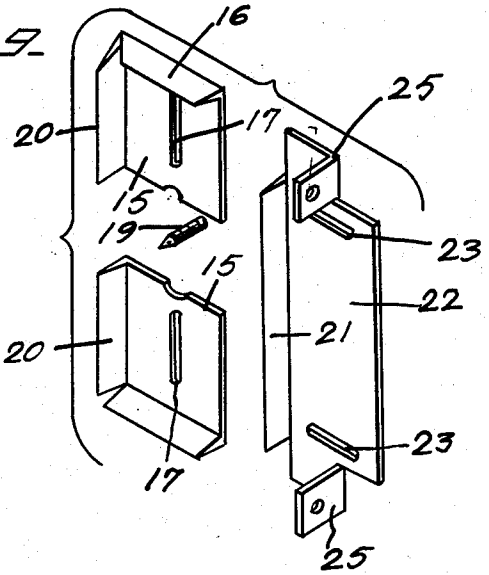


Fig. 9.



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2,961,773

ADJUSTABLE GAGE MARKER

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Filed Sept. 15, 1959, Ser. No. 840,077

3 Claims. (Cl. 33—197)

This invention relates to an adjustable gage marker and particularly to that type of adjustable gage marker which is used for marking out the areas to be mortised and bored on the edges of doors and the jambs of door and window frames to receive door locks, latch faces, striker plates and hinge butts.

An object of the present invention is to provide an adjustable gage marker in the form of a handy compact tool of unitary assemblage.

A further object of the present invention is to provide an adjustable gage marker which will mark out the entire area to be mortised and bored on the edges of doors and the jambs of doors and window frames at one operation.

Another object of the present invention is to provide an adjustable gage marker for marking out the area to be mortised and bored on the edges of doors and the jambs of door and window frames, which is adjustable to various thicknesses of doors and various widths of the jams on door and window frames.

Still other objects, advantages and improvements will become apparent from the following specification, taken in connection with the accompanying drawings, in which:

Figure 1 is a top plan view of the adjustable gage marker according to the present invention applied to the edge of the door.

Fig. 2 is an under plan view of the adjustable gage marker according to the present invention.

Fig. 3 is a vertical sectional view, taken on the section line 3—3 of Fig. 1 and looking in the direction of the arrows.

Fig. 4 is a vertical sectional view, taken on the section line 4—4 of Fig. 2 and looking in the direction of the arrows.

Fig. 5 is a vertical sectional view, taken on the section line 5—5 of Fig. 2 and looking in the direction of the arrows.

Fig. 6 is a transverse sectional view, taken on the section line 6—6 of Fig. 2 and looking in the direction of the arrows.

Fig. 7 is a fragmentary detail view showing part of the width determining plate and one of the stop screws carried by the same.

Fig. 8 is a side elevational view of the edge of the door shown in Fig. 1 and showing the outline of the area to be mortised and bored, as marked out by the adjustable gage marker according to the present invention.

Fig. 9 is an exploded view showing the length and width determining plates and the point for marking the center of the hole to be bored.

Referring now to the drawings in detail, and to Fig. 1 in particular, the reference numeral 10 here designates the edge of a door which is to be mortised and bored to receive a lock. The mounting plate for the adjustable gage marked according to the present invention is designated by the reference numeral 11. This plate has an integral flange 12 at right angles to the main body section along one edge. On its opposite edge and along the transverse center line the plate 11 is formed with an extension 13, greatly reduced in width, which is surrounded by a handle 14. This handle is preferably made of hard rubber, although wood is also satisfactory.

The means for determining the ends of the area to be mortised and bored is comprised by a pair of plates 15, each having right angle flanges 15 formed as chisel edges at their remote ends. Along their longitudinal center lines the plates 15 are formed with elongated slots 17, through which screws 18 extend to adjustably secure the respective plates 15 to the mounting plate.

Along the center line through the screws 18—18 and midway between same, there is mounted a point 19, which is secured in a suitable screw threaded hole in the mounting plate 11. This point determines the center of the hole to be bored.

Similarly, the means for determining one of the sides of the area to be mortised and bored, is comprised by a right angle side flange 20 on each of the plates 15, which flanges are also formed as chisel edges. The side flanges 20—20 abut and bear against the side flange 12 on the mounting plate 11. The other side of the area to be mortised and bored is determined by a right angle side flange 21 on a transversely adjustable plate 22, this right angle side flange being likewise formed as a chisel edge. The plates 21 has parallel longitudinally positioned slots 22—23 therein, through which screws 24—24 extend to adjustably secure same to the mounting plate 11.

The means for accommodating the adjustable gage marker to doors of varying thicknesses and varying widths of jambs on doors and window frames is comprised by a pair of lugs 25—25, formed by cutting away the outer corners of the plate 21 and forming the lugs at right angles to the main body of the plate. Set screws 26—26 are positioned in suitable screw threaded holes in the lugs 25—25 and lock nuts 27 are placed around the set screws.

In use, the length determining plates 15—15 are first set in their proper positions by loosening the screws 18—18, setting the plates, and again tightening the screws. Likewise, the width determining plate 22 is set in the proper position by loosening the screws 24—24, setting the plate, and again tightening the screws.

The area to be mortised and bored in the edge of the door or face of the door or window jamb is then positioned with respect to either the face of the door or edge of the door or window jamb by loosening the lock nuts 27—27, setting the adjustment screws 26—26 to their proper positions, and again tightening the lock nuts 27—27, as best shown in Fig. 3. In order to position the area to be mortized and bored at the right height along the door edge or in the jamb above the bottom of the door or window frame, a stick cut to the proper length may be used, positioned along the edge of the door or the face of the jamb of the door or window frame, and the mounting plate 11 of the adjustable gage marker rested on the stick. Thus, by striking the top face of the mounting plate 11 a sharp blow with a mallet, an impression in the edge of the door or the jamb of the door or window frame is made, as best shown in Fig. 8. This impression delineates the area to be mortised or reversed and the center point 19 marks the center of the hole to be bored.

It has been found that a rubber mallet gives a better impact than any other kind and does not mar the gage.

While the adjustable gage and marker has been described as for use in making impressions in the edges of doors and the jambs of doors and window frames for the securing in position of locks, latch faces and striker plates, by merely omitting the width adjustment plates 22, it may be used to make such impressions in the edges of doors and the jambs of doors and window frames for the securing in position of small butt hinges.

Having now fully described my invention, which I

claim as new and useful and desire to secure by Letters Patent of the United States is:

1. An adjustable gage marker comprised by a mounting plate having a flange on one edge, a pair of plates mounted in alignment for slidable movement along said flange and having flanges at their remote ends and flanges on their sides abutting the flange on the mounting plate formed as chisel edges, and a third plate slidably positioned on said mounting plate for movement at right angles with respect to said pair of plates and having a flange on one side formed as a chisel edge.

2. An adjustable gage marker comprised by a mounting plate, a pair of plates having aligned longitudinally positioned slots therein, aligned flanges on one side of said latter plates, end flanges on the remote ends of said plates of the pair formed as chisel edges, and a third plate positioned on said mounting plate and having transversely positioned slots thereon, and a flange on one side formed as a chisel edge.

3. An adjustable gage marker comprised by a mounting plate, a pair of plates having aligned longitudinally positioned slots therein, aligned flanges on one side of said latter plates and end flanges on the remote ends of said plates of the pair formed as chisel edges, a third plate positioned on said mounting plate and having transversely positioned slots therein and a flange on one side formed as a chisel edge and positioning lugs parallel to said latter flange, and stop screws mounted in said positioning lugs.

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