

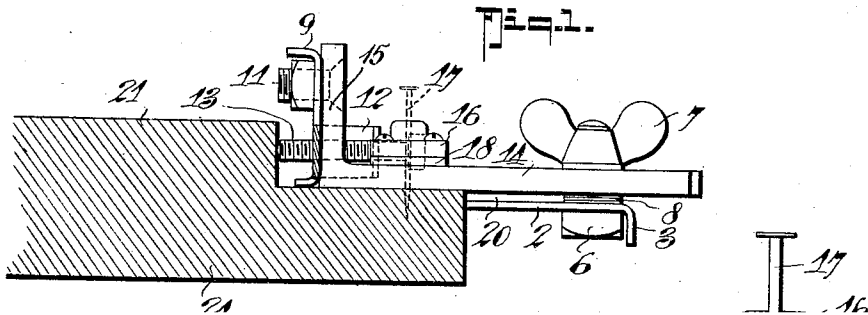
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BUTT GAUGE

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BUTT GAUGE.

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This invention relates to a butt gauge for locating on the door jamb and on the style of the door the correct position for the hinge plate recesses.

5 The device is designed to be removably secured to the corresponding faces of the door jamb and door and definitely locates the length and breadth of the portions to be removed and the depth of such removal.

10 The invention is fully described in the following specification, reference being made to the drawings by which it is accompanied, in which:

15 Fig. 1 is an end elevation of the gauge showing its application to the door jamb, an end lug and adjusting screw being removed to afford a clearer view.

Fig. 2 is a face view of the same, and

20 Fig. 3 is a section to a somewhat enlarged scale of the gland washer which retains the securing nails in position.

The device comprises a gauge plate 2, the outer edge of which is turned at right angles to the face, as at 3, to impart a 25 measure of rigidity to the plate.

This gauge plate 2 is connected to a fence bar 9 by light metal knees adjacent each end. The edges of this bar are similarly 30 end turned to impart rigidity and prevent the nuts of the bolts 11 from turning comprising horizontal and upright portions 14 and 15 respectively.

35 The upwardly turned portion 15 of each knee is secured to the fence bar 9 by a small bolt 11 countersunk in the knee and passing through an elongated aperture 10 in the fence bar. The longer member 14 of each knee is secured to the upper face of the gauge plate 2 to retain a space 20 between it and 40 the underside of the member 14 of the knee, by a small bolt 6, the head of which engages the downwardly turned edge 3 to prevent it turning, and a wing nut 7 on the outer side of the knee.

45 The distance 20 is preserved by a series of thin washers 8 introduced on the bolt between the plate and the knee. These washers afford means of variation of the distance 20 to suit different thicknesses of hinge 50 plates. The holes 4 in the plate 2 and those 19 in the knees 14 through which the bolt 6 passes are elongated each in the direction of the part and thereby permit dual adjustment of the space between the knees and of 55 the distance of the edge of the plate 2 from the fence bar.

Secured to the upper side of each knee adjacent the upwardly turned portion is a gland washer 16. This washer and the knee are apertured in alignment to receive 60 a small wire nail 17, such as a lath nail, and between the gland washer and the knee a rubber washer 18 is interposed, which washer is perforated by the nail 17 when introduced and is designed by its frictional grip 65 on the nail to retain the nail in position ready for use, without fear of their being lost. This avoids the necessity of hunting for nails every time the device is to be used.

70 Lugs 12 project from each end of the fence bar 9, in which lug adjusting screws 13 are threaded.

In the application of the device the door is fitted within the door jamb 21 and is 75 wedged to the required height from the floor. Thereafter a line is scribed across door and door jamb in the approximate position of the upper and lower hinges.

80 The door is then removed and the gauge, which is the particular subject of this application, having been adjusted to the length, breadth and thickness of the hinge plate, is applied (see Fig. 1) to the rabbet of the door jamb and is secured by nails 17 driven 85 through the gland washers 16 and knees 14.

90 The inner edge of the gauge plate 2, the adjacent face of the fence bar 9 and the adjacent edges of the knees 14 give the length, breadth and depth of the recess to be cut, and this portion may be cut with a chisel 95 across the two ends and down the face of the fence bar, and the portion removed by placing the flat of the chisel on the face of the gauge plate 2 and cutting towards the fence bar 9.

100 It will be noticed that V notches 5 are removed from the inner edge of the gauge plate 2 to avoid injury to the chisel while cutting the ends of the recess. It will also be observed that the notches are equi-distantly spaced and efficiently serve to indicate 105 standard butt and hinge sizes to facilitate quick adjustment of the members 14-15.

110 Although I have described the device as applied to the door jamb, as soon as that is finished, it may be pulled off and applied to the mark on the corresponding edge of the door, as the nails 17 offer little or no resistance and are in place ready for immediate application.

As it is desirable that the face of the door be not drawn too tightly against the corre-

sponding face of the door jamb, when against the door jamb, the adjusting screws 13 may be set to give a definite relief therefrom.

5 Having now particularly described my invention, I hereby declare that what I claim as new and desire to be protected in by Letters Patent, is:

1. A butt gauge comprising in combination means for defining the length, depth and breadth of a recess to be cut, and means for removably securing the gauge upon the stock to be recessed, said last named means comprising at least one apertured member 15 having provision for frictionally gripping a securing nail while permitting longitudinal movement of the nail therethrough.

2. A butt gauge comprising in combination means for defining the length, depth and breadth of a recess to be cut, and means for removably securing the gauge upon the stock to be recessed, said last named means comprising at least one apertured member having a rubber washer associated therewith and active in frictionally engaging a securing nail inserted through the aperture of the nipple.

3. A butt gauge comprising in combination, a gauge plate adapted to locate the plane of the bottom of the recess for the hinge plate, a fence bar adapted to determine the back edge of the hinge plate recess, and knees adjustably secured to the gauge plate and to the fence bar and adapted to have their inner adjacent edges define the ends of the recess, said gauge plate having the edge thereof positioned toward the fence bar notched to provide chisel passages and standard size indicators.

4. A butt gauge, comprising in combination, a gauge plate adapted to locate the plane of the bottom of the recess for the hinge plate, a fence bar adapted to determine the back edge of the hinge plate recess, and knees adjustably secured to the

gauge plate and to the fence bar and adapted to have their inner adjacent edges define the ends of the recess, said fence bar being bent at its ends to provide screw bearings, and an abutment screw mounted in the bearing at each bar end for the purposes specified.

5. A butt gauge, comprising in combination, an elongated gauge plate adapted to engage the edge of the door jamb or door and locate the plane of the bottom of the hinge plate recess and having slots extending longitudinally thereof at the ends thereof, a small recess and defining knee mounted at each plate end, said knees each having a slot positioned transversely of the plate slots, bolt and wing nut connections and shim washers for adjustably assembling the knees and plate and to provide a variable space between the upper side of said plate and the under side of said knees, a fence bar adapted to locate the inner edge of the hinge plate recess, said knee bar having an angle bent edge to lend rigidity thereto and to prevent rotation of its securing bolt heads.

6. A butt gauge, comprising in combination, an elongated gauge plate adapted to engage the edge of the door jamb or door and locate the plane of the bottom of the hinge plate recess and having slots extending longitudinally thereof at the ends thereof, a small recess and defining knee mounted at each plate end, said knees each having a slot positioned transversely of the plate slots, bolt and wing nut connections and shim washers for adjustably assembling the knees and plate and to provide a variable space between the upper side of said plate and the under side of said knees, a fence bar adapted to locate the inner edge of the hinge plate recess, said knee bar having an angle bent edge to lend rigidity thereto and to prevent rotation of its securing bolt heads.

In testimony whereof I affix my signature.

IVER JOHNSON.