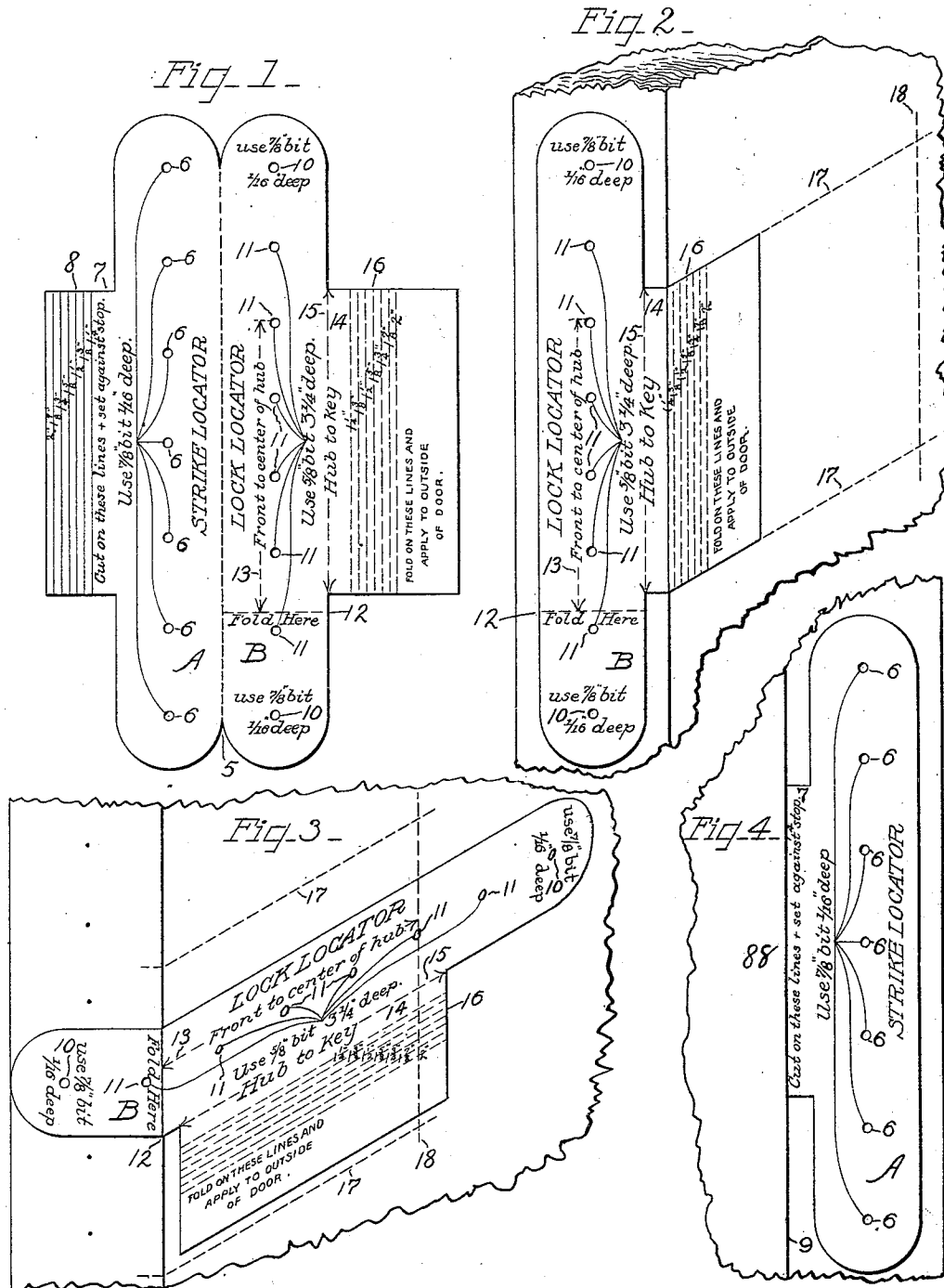


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CENTER LOCATOR FOR BORING FOR PUTTING ON LOCKS.

(Application filed June 23, 1900.)

(No Model.)



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CENTER-LOCATOR FOR BORING FOR PUTTING ON LOCKS.

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Application filed June 23, 1900. Serial No. 21,309. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Center-Locators for Boring to Put on Locks, of which the following is a specification.

My invention relates to improvements in center-locators for the borings in putting on locks; and the object of my improvement is to provide a simple and convenient device for the said purpose.

In the accompanying drawings, Figure 1 is a plan view of my locator as adapted for locating the centers of the borings for the strike or keeper and also those for the lock. Fig. 2 is a perspective view of a portion of a door with my lock-locator applied thereto for locating the centers for the mortise-borings in the edge of the door and the height relatively thereto of the centers for the hub and keyhole. Fig. 3 is a perspective view of a portion of the door as marked off from the locator in Fig. 2 and with my lock-locator applied thereto for locating the centers of the hub and keyhole relatively to the edge of the door. Fig. 4 is a side elevation of a portion of the door stop or jamb with my strike-locator applied thereto for locating the centers for boring the mortise for the body of the strike.

I prefer to make a combined lock and strike locator connected together, as shown in Fig. 1, but with a well-defined line for severance—as, for example, the row of nearly-connected cuts or slits 5, as shown. The said locator is a flat flexible sheet capable of being folded, and good heavy paper or light cardboard is a suitable material from which to make the same.

The strike-locator A has the general contour of the strike or keeper and is perforated with small holes 6 at the proper points for the boring-centers for mortising the body of the strike. The wing 7 of the strike-locator has printed or marked thereon a graduated series of lines 88 for gaging the distance from the shoulder 9 of the stop 8, Fig. 4, to the middle of the rabbet in the said stop to cor-

respond with the various thicknesses of doors, and the said lines are marked for doors varying by eighths of an inch from one and one-quarter inches to two inches. In connection with the said lines and marks are the words "Cut on these lines and set against stop."

The several holes or perforations 6 are connected by braces, and in connection with said braces are the words "Use $\frac{1}{8}$ " bit $\frac{1}{16}$ " deep."

The lock-locator B has mainly the contour of the face-plate of the lock and is perforated with small holes, the two end holes 10 having in connection therewith the words "Use $\frac{1}{8}$ " bit $\frac{1}{16}$ " deep," while the six middle holes 11, which are closer together, are connected by braces and in connection therewith have the words "Use $\frac{3}{8}$ " bit $3\frac{1}{4}$ " deep." The said lock-locator has also toward one end a transverse folding-line 12, which is preferably partly cut through or scored to facilitate folding, and in connection with the said line are the words "Fold here." From this line 12 to the farthest but one of the holes 11 there is a line 13, with V's at each end, together with the words "Front to center of hub." In the middle portion of the lock-locator, at one side edge, is a wing 14, the length of which wing is equal to the distance vertically from the hub-center to the center for the keyhole, and a line 15, with V's at each end, extends along the junction of the body and wing, together with the words "Hub to key." This wing is also properly located relatively to the holes 11 for boring the main mortise for the lock, so as to properly locate the height of the hub and keyhole centers relatively to the lock-mortise in the edge of the door. The said wing 14 is also provided with a graduated series of lines 16, preferably scored or the like, to facilitate folding, the said lines being marked to indicate doors of different thicknesses varying by eighths from one and a quarter inches to two inches, and in connection therewith are the words "Fold on these lines and apply to outside of door."

It may be observed that the contour of the body of the strike-locator and of the lock-locator is the same and that each of said bodies is provided with a wing at one side edge. In the combined strike and lock locator they

are united to each other by their wingless edges, as shown. I prefer to perforate the line of their junction for convenience of severing, as before stated; but this is not necessary, as the strike-locator or the lock-locator can either of them be used when they are attached together, as shown, if desired.

The locators are designed to be made so cheaply that one may be packed with each lock sold, the locator of course being especially designed for the particular lock with which it is packed.

For putting on the lock the lock and strike locators may be separated by severing on the line 5. The wing of the lock-locator will then be folded to a right angle on the proper one of the lines 16 for the particular thickness of the door to which the lock is applied—for example, if for an inch-and-a-quarter door fold on the line so marked and apply the locator with its longer or body portion on the edge of the door and the folded portion of its wing on the inside broad face of the door, as shown in Fig. 2. Then with a pencil or other marker mark lines by the upper and lower ends of the wing and mark centers through the several holes 10 and 11 on the edge of the door, and, if desired, the contour of the main portion of the face-plate mortise may be marked from the contour of the main portion of the locator. The marks made from the upper and lower ends of the wing 14 may by the application of a square be continued from the edge of the door far enough to pass the hub and keyhole centers, as shown by the lines 17 in Figs. 2 and 3. The marker is then folded on the transverse line 12 to a right angle, the smaller or end portion placed on the edge of the door, and its larger portion on the broad side or front, as shown in Fig. 3. In this position the hole indicated by the end of the line 12 may be used to mark the distance of the hub and keyhole centers from the edge of the door. If the locator is placed above both of the lines 17 and a pencil placed in the hole 11, (indicated by the end of the said line 12,) the locator and pencil may be drawn down and across both of the said lines 17 to mark the line 18, Figs. 2 and 3, the intersection of the lines 17 and 18 marking the location of the centers for the hub and keyhole.

The height of the strike may be located by squaring across from the door from one or both of the lines 17 or other fixed points. The wing of the strike-locator is cut off on the proper one of the lines in the series of lines 8 for the proper thickness of door—as, for example, the one-and-a-quarter-inch line—and the locator placed at the proper height, with the edge of the wing 7 as thus cut abutting, as shown in Fig. 4, and the centers for the borings are marked through the holes 6. After thus marking the centers for all of the respective borings the workman proceeds in the

ordinary manner, taking care to follow the instructions printed on the locator.

While I prefer to furnish the locators in the combined form herein shown, ready to be separated for successive use in the manner described, it is evident that the lock-locator herein shown can be made separately, if desired.

It should be observed that the strike-locator and the lock-locator are alike in the fact that either of them comprises a body portion with a longitudinal row of holes and a series of graduated lines to gage by for centrally locating the said rows of holes.

I claim as my invention—

1. A center-locator for the borings in putting on locks, consisting of the united strike and lock locators with the proper gages thereon for the two differently-spaced longitudinal rows of borings, substantially as described.

2. A locator for the borings in putting on locks and strikes, the same comprising a body portion with gages for a longitudinal row of borings and a series of graduated lines for centrally locating the longitudinal line of the said row of borings, substantially as described.

3. A center-locator for the borings in putting on locks, comprising the body portion and wing with a series of lines for folding the said wing to adapt the locator for the desired thickness of door, substantially as described.

4. A center-locator for the borings in putting on locks, the same comprising the body portion having a series of holes along the middle of its length, a transverse folding-line toward one end arranged at the proper distance from a given hole to mark the distance from the edge of the door to the center for the hub, substantially as described.

5. A center-locator for the borings in putting on locks, comprising the body portion having a series of holes along the middle of its length, and the wing with a series of lines for folding the said wing to adapt the locator to the desired thickness of door, the said wing having its ends definitely located with reference to the said series of holes for locating the relative height thereto of the hub and keyhole centers, substantially as described.

6. A center-locator for the borings in putting on locks, comprising the body portion having a series of holes along the middle of its length, a transverse folding-line toward one end of the said body arranged at the proper distance from a given hole to mark the distance from the edge of the door to the center of the hub, and a side wing at one edge of the said body the ends of which wing locate the height of the hub and keyhole centers relatively to the series of holes in the said body portion, substantially as described.

7. A center-locator for the borings in putting on locks comprising the united strike and lock locators, each consisting of a long body

with a longitudinal row of holes and a series of graduated lines parallel to the said row of holes and upon that side thereof which is farthest from the united edges of the said two
5 indicators, substantially as described.

8. A center-locator for the borings in putting on locks comprising the combined strike and lock locators, each consisting of a long body of the same contour as the strike and

face-plate of the lock for which they are designed and having the proper gages thereon, the gages on the strike-locator being definitely located with reference to certain gages on the lock-locator, substantially as described.

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