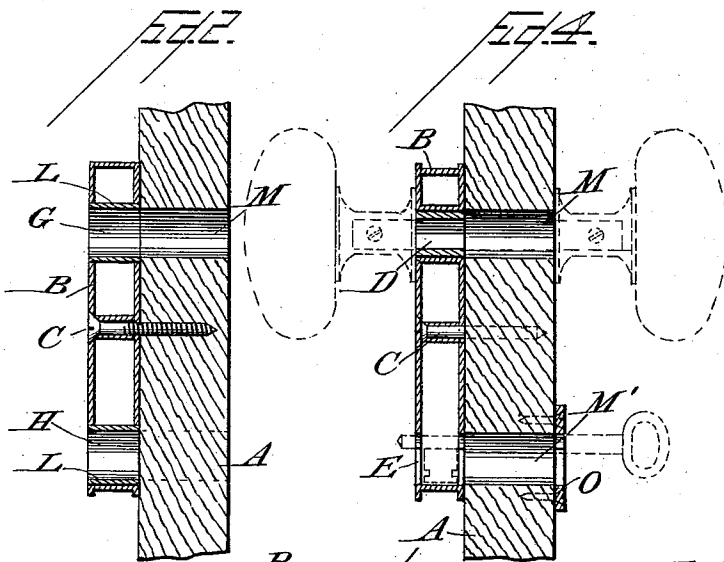
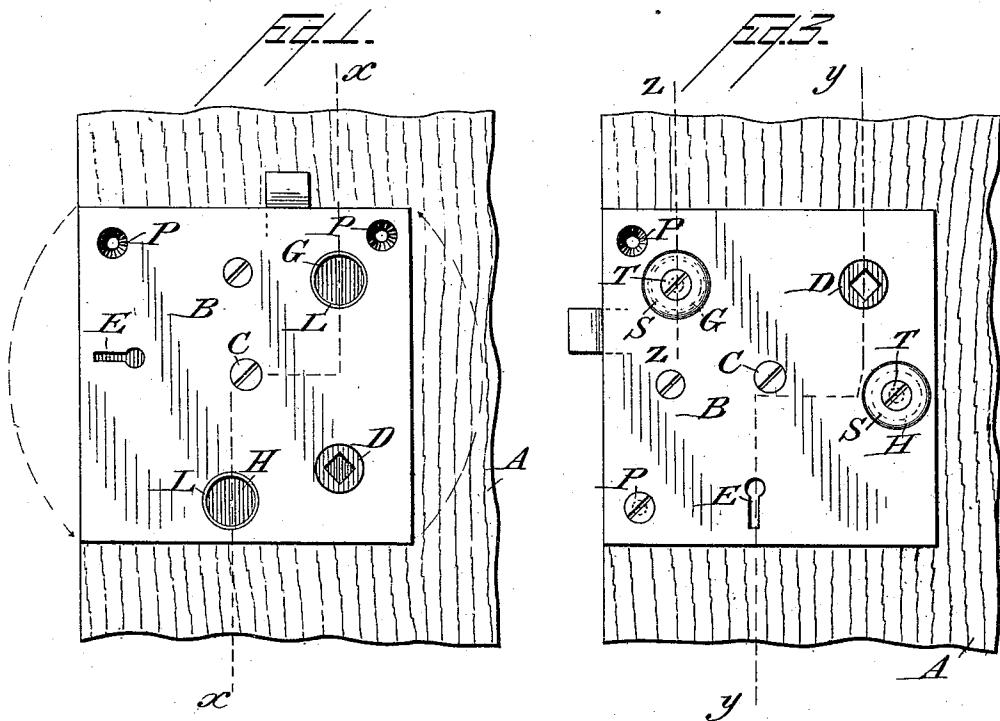


(No Model.)

H. FLYNN.
LOCK.

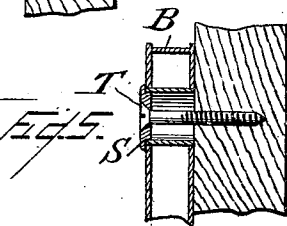
No. 474,955.

Patented May 17, 1892.



Attest:

H. H. Schott
Alfred V. Gage



Inventor
Henry Flynn
by H. B. Anderson,
his Attorney.

UNITED STATES PATENT OFFICE.

HENRY FLYNN, OF LEAVENWORTH, KANSAS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 474,955, dated May 17, 1892.

Application filed January 25, 1892. Serial No. 419,204. (No model.)

To all whom it may concern:

Be it known that I, HENRY FLYNN, a citizen of the United States, residing at Leavenworth, in the county of Leavenworth and State of Kansas, have invented certain new and useful Improvements in Locks; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in lock-casings, and has for its object certain improvements in the construction of such devices as will facilitate their attachment to doors by persons who are not skilled workmen.

My invention consists in providing a casing of a lock having key and knob-spindle holes with perforations or gage-holes so located that they will form guides for boring the holes in the door for the passage of the key and knob-spindle, the relative arrangement of the gage-holes and the spindle and key holes being such that when the lock is moved to its proper position the latter holes will register with those bored in the door. It is preferred to provide the casing with means for securing it to the door temporarily, so that it can be rotated upon said fastening, the perforations or gage-holes being the same distance radially from the center of rotation, respectively, as the key and knob-spindle holes, and which will have the same position with relation to each other and to the upper edge of the casing as the key and knob-spindle holes have to each and to the latch edge of the casing, whereby, if the casing be secured by its central fastening to the door with its top edge flush with the edge of the same, the gage-holes will form guides for boring, as previously stated, and when the lock is turned to its proper position, with its latch edge flush with the edge of the door, the key and knob-spindle holes in the casing will register with the holes bored in the door, as first stated.

The invention also consists in providing a covering for closing the gage-holes after they have served their purpose.

The invention further consists in the novel combination and arrangement of parts such

as will be hereinafter more fully described, pointed out in the appended claims, and illustrated in the accompanying drawings.

In the accompanying drawings, in which similar letters of reference designate corresponding parts, Figure 1 is an elevation showing the casing secured at a central point to the door, turned with its lower edge flush with the edge of the door, in position so that the gage-holes will indicate the proper places to bore the holes in the door for the key and spindle holes. Fig. 2 is a section through the casing and door on the line *x x* of Fig. 1, showing one of the holes bored. Fig. 3 is an elevation showing the casing in its proper position, permanently secured to the door. Fig. 4 is a section through the casing and door on the line *y y* of Fig. 3, showing the knob-spindle and the key in dotted lines. Fig. 5 is a detail sectional view through a portion of the casing and the door on the line *z z* of Fig. 3, showing a cap covering a gage-hole in the casing.

Referring to the drawings by letter, A designates the door; B, the lock-casing of any construction suitable in the premises. The casing may be of any shape, so that two of its edges or other guides are at equal distances from the central fastening. The preferable form, however, is rectangular, and is so illustrated in the present instance, the lower and latch edges forming the guide-edges.

C designates a screw which passes through the casing at a point on a line bisecting the angle formed by the latch and the upper edges securing the casing, so that it may be rotated to bring either of the said edges flush with the edge of the door.

D and E designate, respectively, the spindle and key holes formed at suitable points in the casing.

G and H designate the gage-holes, which when the casing is in the proper position are guides to the boring of the holes in the door for the spindle and key. The relative position of the spindle and the key holes and of the gage-holes is such that when the casing is turned with its lower edge flush with the edge of the door the gage hole G will form a guide for the boring of the hole for the knob-spindle, and the gage-hole H will form a guide for the boring of the keyhole in their proper

places. The relative position of the apertures, the spindle, key, and gage holes can be easily determined by several geometrical demonstrations, which are obvious and need not be
5 herein set forth.

The casing is of the ordinary construction, with the exception of the gage-holes. In the present instance they are formed by punching the sides of the casing before assembling,
10 so that when assembled the opening in each plate will register with those in the other. To close the gage-holes to the interior of the casing, cylindrical tubes L L are seated in them and swaged in place.

15 The operation of the device is as follows: The casing is placed in the position it is desired to have it occupy upon the door and fastened by the central fastening C. The casing is then turned until its top edge is flush
20 with the edge of the door, bringing the gage-holes in place to guide the borings of the holes M M' in the door. After the boring the casing is turned to its normal position, bringing the spindle and key holes to register with the
25 holes M and M', respectively, and permanently secured in place by means of the screw-holes P P. To complete the lock, the spindle and knobs are attached and the keyhole-guard O secured in place. To give the casing a finished appearance, covers or caps S S
30 are provided, which, by means of the screws T T, can be secured over the gage-holes. The covers and their screws will also serve to more firmly secure the casing in place.

35 Departures in several of the details of construction can be made without departing from the spirit of the invention, so long as the relative positions of the guide-lines or guide sides to a common locus, and the relation of the
40 spindle and key holes to one of these lines and the relation of the gage-holes to the other line remain.

As stated, it is preferred to first pivot the lock-case to the doors, so that it may be turned into the two positions, one for boring the holes
45 and the other for receiving the knob-spindle and key; but it is not essential to pivot the case, as the parts can be brought into the proper position by adjusting the case by moving it sidewise or otherwise, as is obvious.
50

By providing the lock-case with the gage-holes the lock can be applied by any other than skilled mechanics and in the minimum of time with absolute certainty and accuracy
55 as to the points of boring the holes and the proper attachment of the lock-case.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a lock-
60 casing having key and spindle holes and provided with a gage-hole or gage-holes for determining and gaging the points of boring the spindle and key holes in the door, substantially as and for the purposes described.
65

2. The combination of the door, a casing, and means for securing the casing so that it can be turned to bring two of its edges flush with the edge of the door, the said casing being provided with gage-holes for boring spindle
70 and key holes in the door, said gage-holes being the same distance from the pivotal point that the spindle and key holes, respectively, are from said point, substantially as described.

3. The combination of the door, the casing
75 provided with gage-holes, and the covers for said gage-holes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY FLYNN.

Witnesses:

C. F. W. DASSLER,
W. A. EVANS.