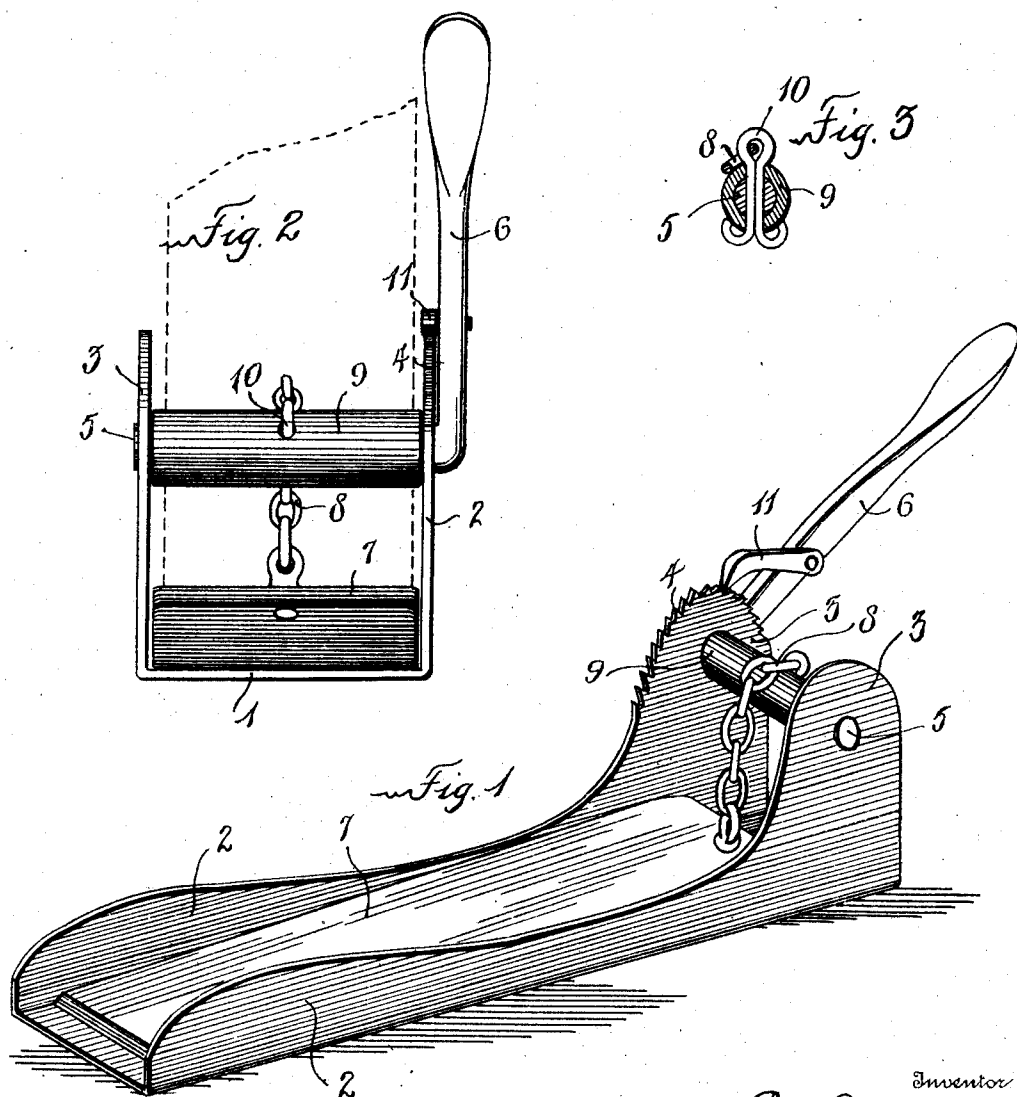


No. 879,169.

PATENTED FEB. 18, 1908.

E. HODGSON.
DOOR HOLDER.

APPLICATION FILED AUG. 19, 1907.



Witnesses

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ELMER HODGSON, OF BONESTEEL, SOUTH DAKOTA.

DOOR-HOLDER.

No. 879,169.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed August 19, 1907. Serial No. 389,213.

To all whom it may concern:

Be it known that I, ELMER HODGSON, a citizen of the United States, residing at Bonesteel, in the county of Gregory and State of South Dakota, have invented certain new and useful Improvements in Door-Holders, of which the following is a specification.

The intent of this invention is to provide a very simple, yet extremely effective device, for the purpose of holding doors during the operation of mortising the same for the common mortise locks.

The invention comprises a holder which is adapted to be readily engaged with the door, and removed from such engagement, and which may be advantageously employed by carpenters or workmen for the purpose above mentioned.

Not only is the invention adapted to be used in the manner hereinbefore premised but the same may be employed readily as a simple means for holding a door in open position, eliminating likelihood of the same being closed by drafts or the like.

Reference is to be had to the following detail description for a full comprehension of the workings of the invention, and the merits and advantages thereof, under actual conditions of service.

The accompanying drawings illustrate the preferred embodiment of the invention, though the structure shown therein may be modified in various features according to the broad spirit of the invention.

In the accompanying drawings, Figure 1 is a perspective view of a door holder comprising the invention. Fig. 2 is an end elevation of the invention showing the same in working position. Fig. 3 is a detail vertical sectional view bringing out clearly the construction of the shaft and cooperating members by which the door engaging plate is actuated.

Similar reference characters refer to like parts throughout the drawing and this description.

Specifically describing the preferred construction of the invention as illustrated, the numeral 1 designates a base which is provided at its longitudinal edges with upwardly projecting spaced flanges 2. The flanges 2 are formed with vertical extensions 3 at one end thereof, one of said extensions having its curved upper edge portion formed with a plurality of ratchet teeth 4 in the arc of a circle. Journaled in the extensions 3 of the

flanges 2 is a shaft 5, which comprises virtually a lateral arm extending from a lever 6.

Mounted between the side flanges 2 of the base 1, is a member 7 designed to engage directly with the door in the actual use of the invention. This member is a door-engaging plate 7, one end of which rests freely upon the base 1 and the other end of which is connected by a chain or similar flexible connection 8 with the shaft 5. The shaft 5 has a sleeve 9 mounted thereon, said sleeve being arranged between the extensions 3 of flanges 2, and a cotter pin 10 is employed to connect the sleeve 9 with the shaft 5. The connection 8 is attached to the cotter pin 10 at one end of the latter, and as above mentioned the other end of the connection 8 is secured to the plate 7. The sleeve 9 and the shaft 5 are adapted to rotate together under the actuation of the lever 6, said lever being provided with a pawl 11 pivoted thereto at a side thereof, and adapted to engage the teeth 4 before described, in order to hold the lever at a desired adjustment.

The above briefly describes the construction of this invention in its preferred embodiment.

In the actual operation of the invention, it will be apparent that the base 1 may be readily placed beneath the lower edge of a door, the latter being received between the side flanges 2, and the door-engaging plate 7 resting substantially throughout its length upon the base. The above having been done the operator forces the lever 6 downwardly by his foot or in any other way convenient, and the shaft 5 will be rotated so as to wind up the chain or connection 8, elevating that end of the plate 7 which is adjacent to the shaft 5. This operation causes the plate 7 to engage the door with great force and the latter is very rigidly positioned while it is being operated upon, whether in mortising the same, or performing any other work thereon. It is obvious also that the invention may be applied in the manner above described to hold the door in open position at a desired adjustment. In the last mentioned instance it is unnecessary to cause the plate 7 to engage with any great amount of force as the door may be readily held open by comparatively slight pressure of the plate thereagainst.

The invention is very simply constructed as the base 1 is made from a piece of sheet metal the edge portions of which are bent up-

wardly to form the flanges 2. The shaft 5, also, being formed with the lever 6, affords a very simple and advantageous construction. The shaft is prevented from displacement by
5 the sleeve 9, which is secured thereto, as described and the whole structure of the invention is extremely substantial, simple, and adapted for ease of operation.

Having thus described the invention what
10 is claimed as new is:—

1. In a door holder, the combination of a base, a door-engaging plate mounted thereon, a shaft supported above the base and connected with said door-engaging member,
15 and means for operating the shaft to effect engagement of the door-engaging member with the door, substantially as described.

2. In a door holder, the combination of a base embodying spaced flanges, a shaft
20 mounted in said flanges, a lever connected for operation of the attaching means for holding the lever at a desired adjustment, and a door-engaging member arranged upon the base and connected with the shaft to be elevated by the latter when it is actuated.

3. In a door holder, the combination of a base, a door-engaging plate mounted thereon and having one end movable freely along
30 said base, a shaft and operating means therefor, being mounted upon the base, and a flexible connection between the opposite end of the door-engaging member and the shaft for the purpose described.

4. In a door holder, the combination of a
35 base comprising spaced longitudinal flanges,

a door-engaging plate mounted therein, and having one end movable freely along the upper surface of the base, the aforesaid flanges being formed at one end with vertical extensions, a shaft mounted in said vertical extensions, one of the extensions being formed
40 with teeth arranged on the arc of a circle generated from the axis of the shaft as a center, a lever connected with the shaft to operate the same, a pawl carried by the lever to engage the teeth aforesaid, and a connection
45 between the shaft and that end of the door-engaging plate adjacent thereto.

5. In a door holder, the combination of a base consisting of a plate having its edge portions bent upwardly to form spaced flanges
50 provided with extensions at one end, one of the extensions being formed with ratchet teeth arcuately arranged, a lever mounted upon the base and having a lateral arm constituting a shaft, said shaft being journaled
55 in the extensions of the flanges, a sleeve mounted between the extensions and upon the shaft, an attaching member connecting the sleeve with the shaft, a door-engaging
60 plate arranged between the flanges of the base, and a chain connecting one end of said plate with the member which attaches the sleeve to the shaft.

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

ELMER HODGSON.

Witnesses:

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