

C. E. MORRISON.
DETACHABLE HINGE HOLDER.
APPLICATION FILED JAN. 14, 1909.

943,363.

Patented Dec. 14, 1909.

Fig. 1.

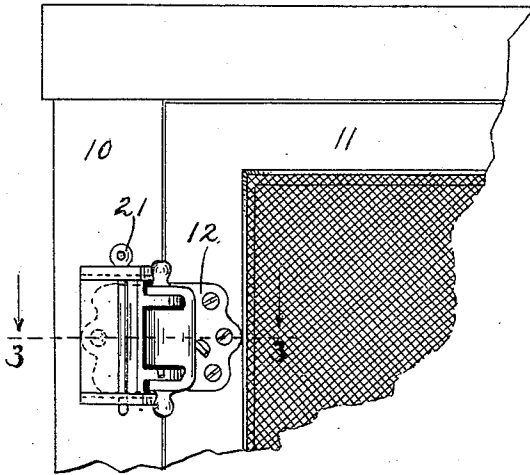


Fig. 2.

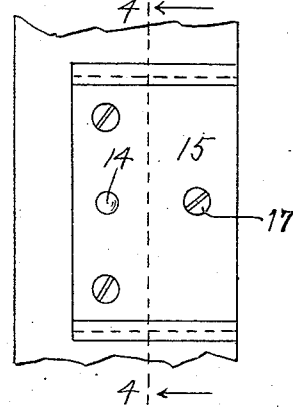


Fig. 3.

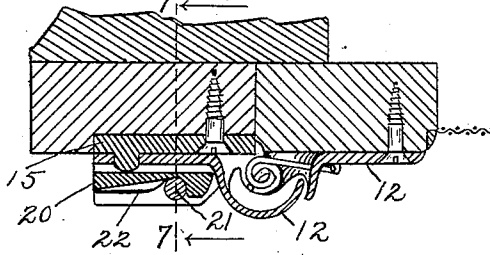


Fig. 4.

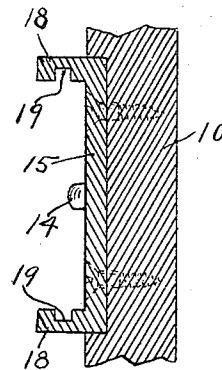


Fig. 5.

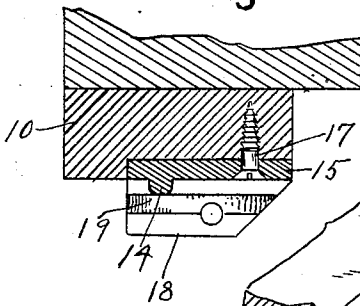


Fig. 6.

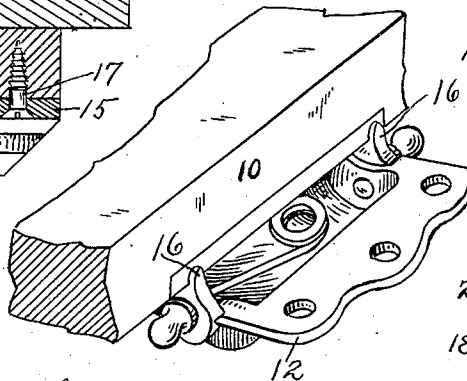
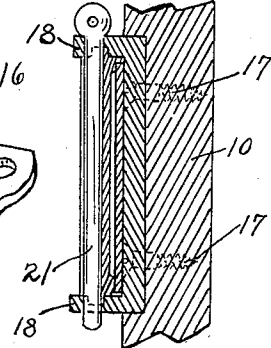


Fig. 7.



WITNESSES:
O. M. McLaughlin
W. M. Gentles.

INVENTOR.
Charles E. Morrison.
BY
W. H. Woodward
ATTORNEY.

UNITED STATES PATENT OFFICE.

CHARLES E. MORRISON, OF INDIANAPOLIS, INDIANA.

DETACHABLE-HINGE HOLDER.

943,363.

Specification of Letters Patent. Patented Dec. 14, 1909.

Application filed January 14, 1909. Serial No. 472,224.

To all whom it may concern:

Be it known that I, CHARLES E. MORRISON, of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Detachable-Hinge Holder; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

The object of this invention is to provide an improved means for detachably securing hinges in place, the parts being such that the door cannot sag, as the hinge-holder remains permanently fixed in place and cannot work loose, nor can the hinge work loose in the hinge-holder. Heretofore, the hinges of screen-doors and the like have been usually secured to the door casing by screws which must be moved every time the door is removed and for that reason, as well as because of the use of the door, these screws work loose in the wood and permit the door to sag.

Another advantage besides the prevention of sagging is the ease of attachment and detachment of the hinge from the holder and the strength of the connection and the economy of the construction.

The full nature of this invention will be understood from the accompanying drawings and from the following description and claims.

In the drawings Figure 1 is a front elevation of the upper left-hand corner of a door casing and screen-door showing one hinge, parts being broken away. Fig. 2 is a front elevation of a portion of the door casing with the hinge-holder in place, but with the hinge removed. Fig. 3 is a horizontal section on the line 3—3 of Fig. 1. Fig. 4 is a vertical section on the line 4—4 of Fig. 2. Fig. 5 is a horizontal section like Fig. 3 with the hinge portion omitted. Fig. 6 is a perspective view of a portion of the door-casing with the holder and hinge attached and the door removed, showing the interior of the spring. Fig. 7 is a vertical section on the line 7—7 of Fig. 3.

In detail there is shown a door-casing 10 with a screen-door 11. The screen-door has an ordinary spring hinge 12 thereon.

This invention is not limited to the use of particular kinds of hinges on the door except one in which a screw is used for securing the hinge in place; for one of the

screw holes of the hinge coöperates with the lug 14 on the hinge-holder 15. Also, the stop-lugs 16 on the hinge, as appears in Fig. 6, coöperates with the edge of the holder 15. The holder 15 is a metal plate mortised, and embedded securely in the door-casing and held in place by screws 17 that need never be removed for removing the door, and therefore, said screws and the mortise prevent the plate 15 from working loose. At its upper and lower ends said plate 15 has outwardly projecting horizontal flanges 18 and in the opposing sides of said flanges there is a horizontal guiding groove 19. The lug 14 is about halfway between the ends of the plate 15.

One leaf or half of the hinge is placed against the plate 17 with lug 14 projecting through one of the screw-holes thereof. Hence the hinge fits flat and tight against the flat surface 15. A clamping plate or piece 20 is then slipped in position between the flanges 18 of the plate 15 and against the recess of the hinge, and the removable pin 21 is inserted through holes in the hinge-holder 15, as shown in Fig. 7. This pin clamps plate 20 against the hinge and holds it from escaping. The clamping plate 20 is also held in place by end-ribs, as shown in Fig. 7, that slip into the grooves 19. When the hinge-holder is provided with grooves 19 in which the clamping plate slide, any means for preventing the lateral escaping of the clamping plate will suffice instead of the pin 21. This pin 21 prevents such lateral movement by reason of the clamping plate being recessed on the upper side 22, as shown in Fig. 3, so that said pin lies in said recess. The lugs 16 abut the edge of the plate 15 and tend further to brace and strengthen the parts and also in coöperation with the lug 14 to prevent play of the hinge on the plate 15.

What I claim as my invention and desire to secure by Letters Patent is:

1. The combination with a hinge of a door of a holder for removably securing a hinge in place, said holder consisting of a plate upon which a leaf of the hinge may be placed, one of said members being provided with a hole or recess and the other with a lug projecting into said hole, and means slidably engaging said holder for holding the hinge against the plate.

2. The combination with a hinge of a door, which hinge is provided with a screw-

hole, of a holder for detachably securing the hinge in place, which is provided with a lug to enter the screw-hole of the hinge, outwardly extending flanges that meet at the
5 upper and lower end of said holding plate with holes therethrough, a clamping plate adapted to fit against said hinge and between the flanges of said holding plate and having a longitudinal recess in the outer surface thereof, and a pin extending through
10 the holes in said flanges and resting in the recess in said plate.

3. The combination with a hinge of a door provided with a screw-hole, of a holding-plate provided with a lug projecting in

said screw hole, flanges on said plate that are horizontally grooved, a clamping plate adapted to be placed over the hinge with its ends slipped in the grooves in the flanges of said holding plate, and means for preventing the lateral movement of said clamping
20 plate against said holding plate.

In witness whereof, I have hereunto affixed my signature in the presence of the witnesses herein names.

CHARLES E. MORRISON.

Witnesses:

V. H. LOCKWOOD,

O. M. McLAUGHLIN.