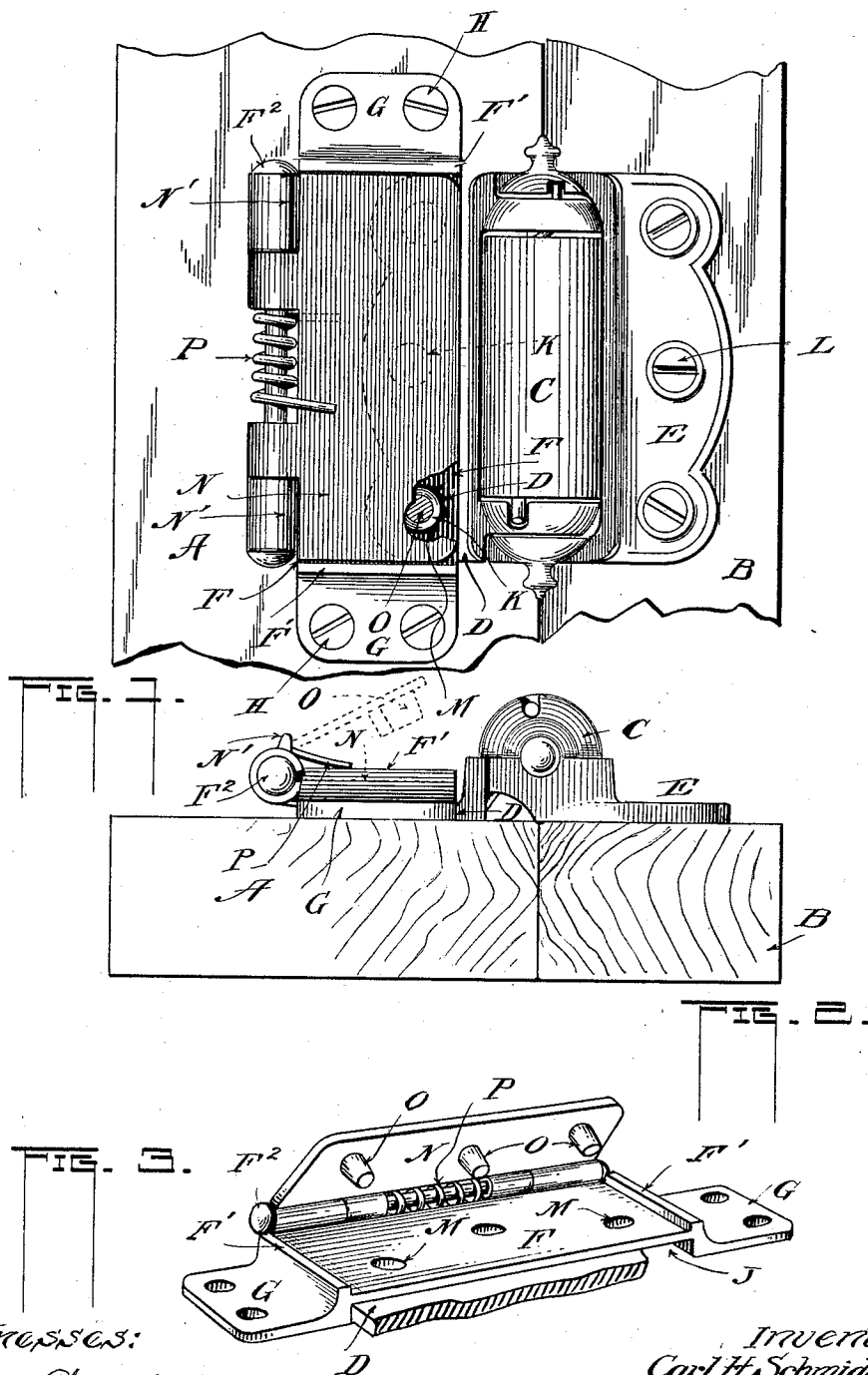


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HINGE HOLDING DEVICE.

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UNITED STATES PATENT OFFICE.

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HINGE-HOLDING DEVICE.

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Specification of Letters Patent.

Patented Sept. 3, 1912.

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To all whom it may concern:

Be it known that we, CARL H. SCHMIDGALL and ORA A. BARNEWOLT, citizens of the United States, residing at Peoria, in the
5 county of Peoria and State of Illinois, have invented certain new and useful Improvements in Hinge-Holding Devices; and we do hereby declare that the following is a full, clear, and exact description of the
10 invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a device for attachment to a door frame or other support
15 and adapted for engaging and holding a door-hinge.

The invention has for its object to provide a device for engaging and securely holding the hinge of a door and to take
20 the place of the usual holding-screws.

It is well known that much time and considerable careful work is required in hanging doors, especially screen-doors, and it is also known that when the screw holes in the
25 wood become worn by constantly removing and replacing the screws, larger ones or those of greater length must be used; there being a time when the holes have become so enlarged and worn that the hinges must be
30 changed to new positions on the door and upon the door frame in order that the door can be properly and securely hung.

It is the purpose of the invention in view of this to provide a stationary device to engage and hold the hinges so that said hinges
35 need never be changed in position on the door. Furthermore one of the purposes is to provide a hinge-holding device that will accommodate any usual type of hinge, the
40 device being made to receive a standard hinge rather than requiring a special make. And while the invention is susceptible of various changes we have illustrated in the drawing a form that answers the purpose
45 admirably.

Figure 1 shows a portion of a door frame, and a part of a door showing the door hinge and our hinge-holding device. Fig. 2 is an
50 end elevation of the said hinge and the holding device, and Fig. 3 shows the said device in perspective.

In the first two figures a portion of a door-frame or other support is indicated at A while B is a portion of the door.

C illustrates an ordinary spring hinge attached to the door, the same being made up of the usual leaves D E connected hingedly in any usual manner.

F is a member which may be a casting or of pressed steel having at its ends extensions G projecting below the plane thereof and adapted to be secured to the door frame by means of screws H, for instance, there being a recess J created by projecting
60 said extensions as described and shown, and into which the part D of the hinge is inserted. Both the leaves D E of said hinge are provided with the screw-holes K those of the member E receiving screws for the door and indicated at L. The other holes
70 K of the hinge-leaf D, however, do not receive screws, but in the leaf F above and in register with said holes K are holes M. Hinged to the said member F in any suitable manner, for instance, in using a hinge-
75 pin F² is a plate N from the under side of which project a series of lugs O preferably tapered and adapted to enter the holes M and the said holes K in the said hinge-member D, there being preferably provided any
80 suitable spring P or its equivalent by which to hold the said plate N firmly and positively upon the member F as its normal position. The said member F is preferably
85 provided with raised ribs or flanges N', Fig. 3, within which the plate N lies, these flanges serving to prevent any shake in the said plate should the hinge-pin F² be loose. Upon one or both of the portions of which the member F receives the pin F² is a lug
90 N' which is a limiting stop for the plate N so that that member will not be raised so high as to endanger the spring.

The hinge holding device when secured upon the door frame a sufficient distance
95 from its edge, or where the door abuts against it will receive the full width of the leaf D, and the recess J is just large enough to receive the latter so that after the lugs O engage the holes K thereof the
100 hinge will not be permitted to shake or have movement within said recess. As there is a standard for the position of the screw holes and the size of the same, it is clear that if the lugs O of the plate M are
105 properly disposed upon that member the device will receive and hold any hinge.

In placing the door in position after the

hinges and the device are once properly set it is only necessary to raise the plate N, insert the hinge leaf D and release said plate. The lugs will enter the holes and securely
 5 hold the hinge until released by a like operation.

It is clear that we have provided a device that will receive and hold any hinge bought from stock. The screw-holes in most all
 10 makes are spaced in the same manner so that a hinge taken at random can be at once utilized. The hinge is not made to receive the holder but the latter is made to fit the hinge.

15 It is not the desire to confine ourselves exactly to what is shown and described since changes may be made as will fairly fall within the invention and as will be covered by the appended claims.

20 Having described our invention, we claim:—

1. In a device of the nature described, the combination with a hinge-leaf provided with screw holes of a member to receive said leaf,
 25 and also provided with holes to register with those of said leaf, and a part provided with projections adapted to enter both series of holes.

2. In a device of the nature described, the
 30 combination with a door and its hinge, the latter having a leaf provided with perforations, of a device to receive said leaf, and an elastically held part pivotally carried by the device and provided with an extension
 35 to engage the perforation of the said projecting part of the hinge.

3. In a device of the nature described, the combination with a hinge, one of its leaves being provided with screw holes, of a device
 40 to receive the leaf having the holes, and a movable part having an extension to engage one of the said screw holes.

4. In a device of the nature described, the combination with a hinge, one of its leaves,
 45 having screw-holes, of a device adapted to receive the leaf, and a series of lugs on the

said device adapted to engage the screw holes of the leaf.

5. In a device of the nature described, the combination with a hinge-leaf, of a device to
 50 receive and inclose said leaf, and a pivotally mounted member having means to engage and hold said leaf.

6. In a device of the nature described, the combination with a hinge-leaf having an
 55 aperture, of a device adapted to be secured to a support, and including a part spaced from said support leaving a recess to receive the leaf, said part having an aperture in register with the aperture of said leaf, a
 60 member carried by the device and provided with a lug to enter both the apertures, and means to maintain a constant pressure upon the member.

7. In a device of the nature described, the
 65 combination with a hinge having a screw-hole, and a support, of a device secured to the support comprising a plate spaced from said support and adapted to receive part of the hinge beneath it, there being a hole in
 70 said plate in register with one of the screw holes of the hinge, a member carried by said plate and provided with a lug to enter the hole in said plate and that of the hinge, and means to normally place pressure upon said
 75 member in the direction of the plate.

8. A hinge holding device comprising a part adapted to be secured to a support, and having a recess to receive the hinge, a member hingedly carried by the said part, a
 80 spring in control of and adapted to move the member in the direction of the said part, there being an aperture in the latter and a lug carried by the member adapted to enter the aperture and engage the hinge.
 85

In testimony whereof we affix our signatures, in presence of two witnesses.

CARL H. SCHMIDGALL.

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Witnesses:

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