May 5, 1925. 1,536,490

C. F. GESCHICKTER

DOOR AND WINDOW SCREEN HINGE

Filed April 3, 1924

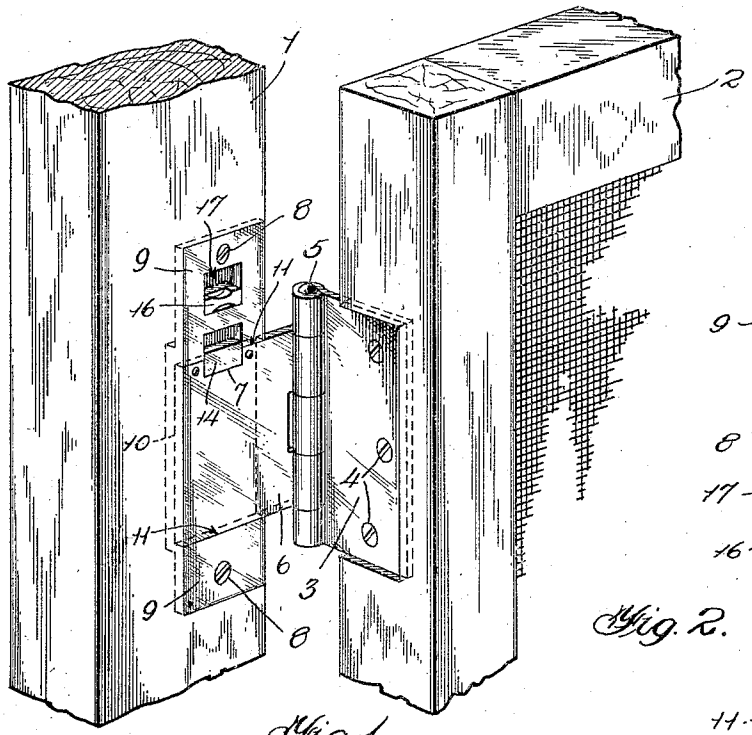


Fig. 1.

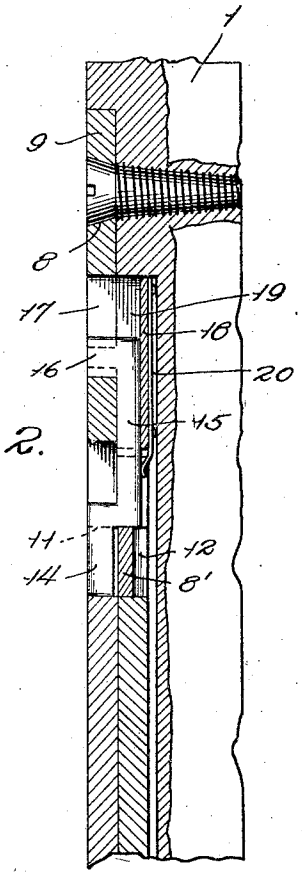


Fig. 2.

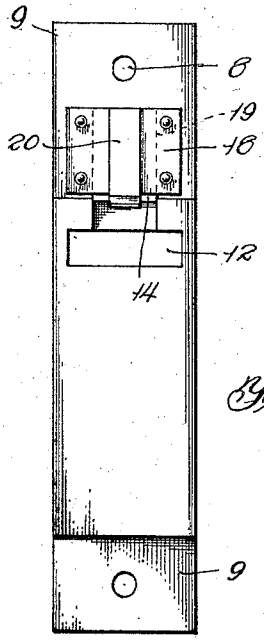


Fig. 4.

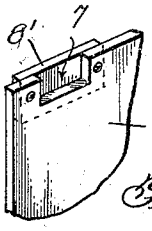


Fig. 3.

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UNITED STATES PATENT OFFICE.

CHARLES F. GESCHICKTER, OF WASHINGTON, DISTRICT OF COLUMBIA.

DOOR AND WINDOW SCREEN HINGE.

Application filed April 3, 1924. Serial No. 704,048.

To all whom it may concern:

Be it known that I, CHARLES F. GESCHICKTER, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Door and Window Screen Hinges, of which the following is a specification.

According to the present practice in screen doors, when it is desirable to take them down for the winter season it is necessary to remove the hinge from the main door jamb thus leaving unsightly screw holes in the face of the main door jamb. Another practice is to remove the hinge pintle thus leaving one of the hinge leaves on the main door jamb which is objectionable because said leaf projects within the door opening as an obstruction which is likely to tear the clothes of people passing through the doorway, and also is unsightly.

The object of my invention is to provide a hinge and its hanging plate whereby the hinge may be bodily removed with the screen door without defacing the main door jamb or leaving any projections thereon.

A further object of my invention is to provide a hinge for a screen door which does not require any screws to fasten the screen hinge to the door jamb; and with these and other objects in view my invention consists of the parts and combination of parts as will hereinafter be more fully set forth.

In the drawing:

Figure 1 is a perspective view of a portion of a door and its jamb, my improved hinge being shown attached thereto.

Figure 2 is an enlarged vertical sectional view through the jamb showing my invention.

Figure 3 is an enlarged detail perspective view of the upper edge of one of the hinge leaves.

Figure 4 is a rear elevation of my improved face plate and its associated parts removed.

The reference numeral 1 designates a window or door jamb to which the screen door, or window screen, 2 is hinged.

My improved hinge comprises a leaf 3 having the usual screw openings 4 and pintle 5. The other leaf member, which is designated by the reference numeral 6 comprises a flat plate without perforations, or screw openings, and is secured to the leaf 3 by means of the pintle 5.

The hinge leaf 6 is provided in one face and at its upper edge with a recess 7, which will be hereinafter referred to. On the back of the leaf 6 is provided a projection 8′, which projection is, preferably, immediately behind the recess 7 and at the top edge portion of the leaf 6.

The hanging plate especially designed to be used with the special hinge just above described is provided with screw openings 8 in its respective end portions. Intermediate the end portions 9 is a recess 10 formed in the face of the plate with shoulders 11 at each end of the recess. At the upper end of the recess 10 I form an opening 12 through the plate which is adapted to receive the projection 8′ on the leaf hinge 6 when the leaf hinge 6 is seated in the recess 10, said projection and recess 12 cooperating with the shoulders 11 to sustain the vertical pressure of the load of the door.

Immediately above the slot 12 in the face plate there is a slot 13 constituting the slide way and guide for the bolt 14, which bolt has a stem 15 and an operating handle 16, said operating handle projecting into a slot 17 formed through the plate in its upper end portion. To hold the bolt on the face plate I secure a block 18 on the rear face of the plate, which block is provided with a slideway 19 in which the stem 15 of the bolt slides. A spring 20 is secured to the block 18 at its lower end and projects inwardly toward and bears upon the stem 15 of the bolt whereby the bolt is held tight upon its seat in the slot 19 against accidental displacement or movement.

When the hinge leaf 6 is in its proper position in the recess 10 of the face plate, with the projection 8 seated in the slot 12, the hinge is locked in the recess by pushing down the bolt 14 by its handle 16 until the bolt is fully seated in the recess 7 of the hinge leaf 6.

From the above it will be seen that all that is necessary to hang a screen door is to have the hinge member 3 secured to the screen door and then place the door in position with the hinge leaf 6 in the recess 10 of the face plate on the door jamb, and when the parts are in this position the screen door is securely fastened to the door jamb by shoving the bolt 14 down into the recess 7 of the hinge leaf 6 whereby the door is securely hung.

When it is desired, as for instance, for the

winter season, to remove the screen door all that is necessary to do is to open the screen door and push the bolt 14 upwardly and entirely out of the recess 7 in the hinge leaf 6 whereupon the screen door with the hinges attached is removed. To hang the screen door all that is necessary is to place the hinge 6 in the recess 10 and pull the bolt 14 downwardly into the recess 7 of the hinge leaf 6 whereupon the door is secured in position.

I may in some instances mount the bolt 14 on the hinge leaf 6 and form a keeper in the plate 9, or I may place two bolts on the hinge leaf 6 with suitable keepers on the face plate 9 and operate said bolts simultaneously by a cam on the hinge leaf 6.

It will be understood that in places where it is desired to place a window screen on a hinge so that the glass windows may be cleaned without entirely removing the screen this improved hinge is adapted for such use.

What I claim is:

1. A hinge hanging plate having a recess in its outer face adapted to receive the leaf of a hinge, a slot through the plate at the upper end of said recess, and a bolt mounted on said plate and adapted to project into said recess, and means holding said bolt in its operative and inoperative position.

2. A hinge hanging plate having a recess in its outer face adapted to receive the leaf of a hinge, a slot through the plate at the upper end of said recess, and a bolt mounted on said plate and adapted to project into said recess and slot, and a spring to frictionally hold the bolt in its adjusted positions.

3. The combination with a hinge hanging plate having a recess in its outer face adapted to receive the leaf of a hinge, a slot through the plate at the upper end of said recess, and a bolt mounted on said plate and adapted to project into said recess and slot, of a hinge comprising two leaves, one of which is imperforate, a projection on the under face of said imperforate leaf, and a recess in the outer face of said imperforate leaf, said last named recess registering, when the parts are in assembled position, with the slot in said plate.

In testimony whereof I affix my signature.

CHARLES F. GESCHICKTER.