Feb. 27, 1923. 1,446,722

A. PELTIER

HINGE RETAINING PLATE

Filed Nov. 24, 1920

Fig. 1.

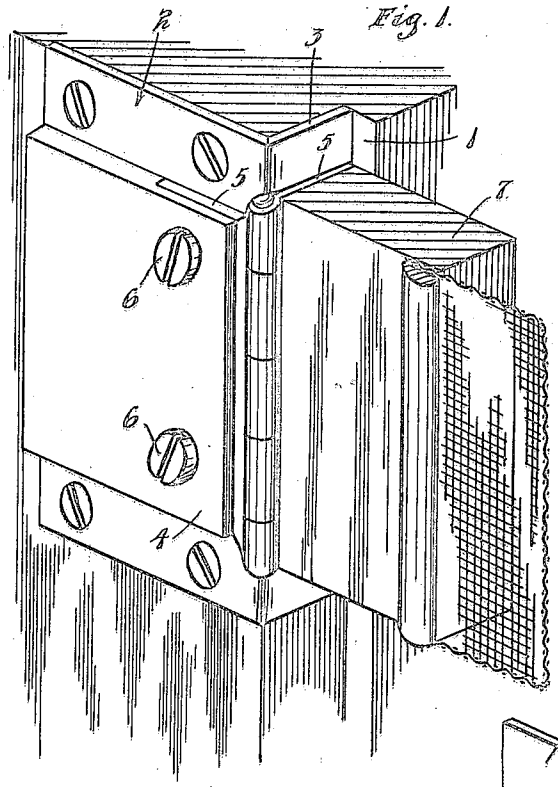



Fig. 3.

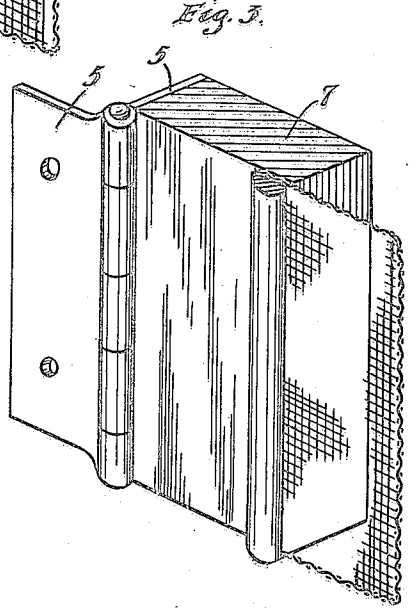



Fig. 2.

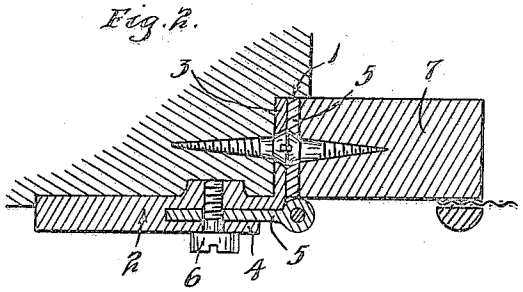
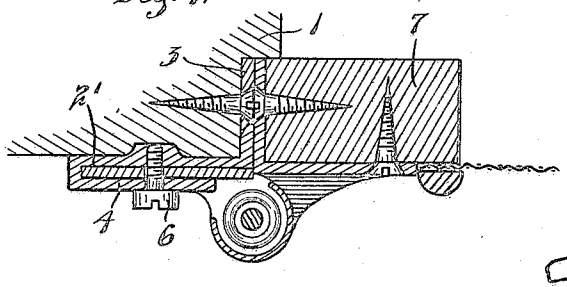



Fig. 4.




INVENTOR.
ALFRED PELTIER,
BY HIS ATTORNEY.
James F. Williamson

Patented Feb. 27, 1923. 1,446,722

# UNITED STATES PATENT OFFICE.

ALFRED PELTIER, OF MINNEAPOLIS, MINNESOTA.

## HINGE-RETAINING PLATE.

Application filed November 24, 1920. Serial No. 426,295.

*To all whom it may concern:*

Be it known that I, ALFRED PELTIER, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Hinge-Retaining Plates; and I do hereby 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.

This invention relates to a hinge retaining plate and particularly to such a plate adapted for use with screen doors, storm doors or storm windows. Such doors and windows are used only during part of the year and when they are mounted and dismounted by the removal of hinge screws, the wood of the door or window frame which receives the screws soon becomes so mutilated that a secure fastening cannot be obtained. The hinge screws usually become rusted and their removal is often difficult. These and other objectionable features of this practice are eliminated by the use of the present invention.

It is an object of the invention therefor to provide a structure by means of which the door or window and desired attaching hinge can be quickly and easily detached without disturbing any screws placed in the window or door frame.

This and other objects and advantages of the invention will become apparent from the following description made in connection with the accompanying drawings, in which like reference characters refer to the same parts throughout the different views, and in which

Fig. 1 is a perspective view of a door or window jam having the applicant's novel attaching means applied thereto and a portion of the attached part being also shown;

Fig. 2 is a section of a structure shown in Fig. 1, taken on the line 2—2 thereof;

Fig. 3 is a perspective view showing part of the attached part and its attaching hinge;

Fig. 4 is a sectional view similar to Fig. 2, but showing a modification.

Referring to the drawings:

A door jam or side of a window frame is shown in section in Fig. 1 and has a rabbet which is formed in the front or outside edge thereof. An angular plate is shown as having a substantially rectangular portion 2 attached to or set into the front of the jam or frame and as also having a flange portion 3 extending at right angles and contacting with the inner surface of the rabbet 1. The portion 2 is shown as attached to the frame by spaced screws and this portion has between said screws a thicker rectangular portion from which a comparatively thin plate 4 extends in spaced relation to the plate 2 to a point adjacent the corner edge thereof and this plate 4 thereby forms a slot, which slot is adapted to receive the plate or flange of a hinge 5. The plate 4 has vertically aligned spaced holes which will be arranged to register with the usual holes provided in the plate of the hinge 5 and spaced lugs are formed on the inner side of the portion 2 in alignment with these holes, which lugs are threaded to receive the threaded ends of headed attaching screws 6. The flange 3 of the anchoring plate is also provided with holes and adapted to receive attaching screws taking into the jam or frame. The other plate or flange of the hinge 5 will be attached as usual by screws to the edge of the window or door 7, which is shown as being part of a screen door.

With the construction described, when it is desired to attach the door or window, the usual attaching hinge will be secured thereto, as shown, and one flange or plate of the hinge will then be inserted into the slot of the anchoring plate and the screws 6 passed therethrough and tightened to clamp the hinge firmly between the portion 2 and the clamp plate 4. When it is desired to remove the door or window, the screws 6 will simply be removed and the door or window then withdrawn with the hinge remaining thereon. The screws 6 may, of course, be either replaced in the anchoring plate or kept out and stored until again needed.

In the modification shown in Fig. 4, a hinge having a coiled spring disposed about the pivot thereof and which is surrounded by a cylindrical housing, is shown which comprises a common structure in screen door hinges. This hinge however, is provided with a right angle channel portion on one attaching plate, which is arranged to contact both the edge and front of the door or window. The anchoring plate in this figure is also shown as having the portion 4′ forming the clamping plate as bent up and over from the main body of the portion 2′. The portion 4′ as in the form shown in Figs. 1 and 2 forms a slot adapted to receive one plate

of the hinge which is attached to the anchor plate by the screws 6 as above described.

It will thus be seen that the applicant has produced a device by means of which doors and windows can be quickly and easily placed in position and removed therefrom. The screws that take into the window or door frame or into the window or door are left permanently in position and the material in these parts is not mutilated. The anchor plates will be left permanently on the jams or frames and the hinges will be left permanently on the doors or windows and the said parts are thus always firmly secured in position.

It will, of course, be understood that various changes may be made in the form and details of the device without departing from the scope of the invention, which generally stated consists in the matter shown and described and set forth in the appended claims.

What is claimed is:

1. A holder for a hinge comprising a plate having holes therein adjacent its top and bottom edges adapted to receive attaching means for attaching the plate to a door or window frame, said plate having a flat lip spaced therefrom and extending transversely thereof between the top and bottom holes and connected to the plate adjacent one of its vertical sides, said lip having apertures therethrough and said plate having tapped holes in alinement with said apertures whereby the leaf of the hinge can be disposed between said lip and plate, and clamped and secured thereto by screws extending through said lip and hinge and into said tapped holes.

2. A hinge retaining device having in combination an integral plate having a flat portion adapted to contact the front of a door jam or window frame, and a flat portion extending at right angles thereto adapted to contact the edge thereof, and having holes for attaching means in said first mentioned portion, said portion having a vertical slot formed therein adjacent the other portion forming a clamping lip attached to said plate only at one edge, said clamping lip having spaced holes extending therethrough, and threaded lugs in alinement with said holes, a hinge having one section disposed in said slot, screws passing therethrough and through the said holes in the clamping lip to clamp said section between the surfaces of the plate and lip, the other section of said hinge being attached to the edge of a door or window, which section contacts with the portion of the plate attached to the edge of the door jam or window frame when the door or window is in closed position.

3. A hinge retaining device comprising a plate having flat portions disposed at right angles to each other, one of said portions being relatively wider than the other and having holes for attaching means therethrough adjacent the upper and lower edges thereof, the portion between said holes being of increased thickness and having a slot formed therein adjacent the angle edge of the lip attached only at one edge forming a clamping plate, said clamping plate having spaced holes extending therethrough and the plate having threaded lugs in alinement therewith.

4. An attaching means for a hinge comprising an integral plate having spaced holes therein adjacent its top and bottom edges, a thickened central portion having a slot formed therein at one edge of the plate forming a projecting lip projecting from said thickened portion and attached thereto only at one edge, spaced holes extending through said lip and tapped holes in a portion of the plate beneath said lip in alinement with said holes whereby a hinge plate can be inserted beneath said lip and held and clamped in position by screws extending through the holes in said lip into the tapped holes, and said hinge plate can be removed while the plate remains attached.

In testimony whereof I affix my signature.

ALFRED PELTIER.