March 15, 1927. 1,621,047

F. W. YOUNG

CASEMENT HINGE

Filed Sept. 21, 1925

Fig. 1.

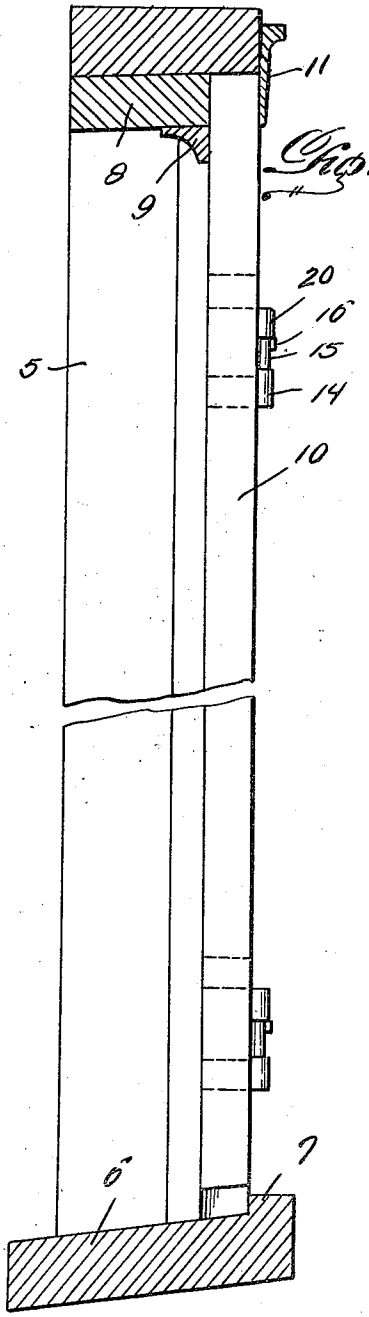


Fig. 2.

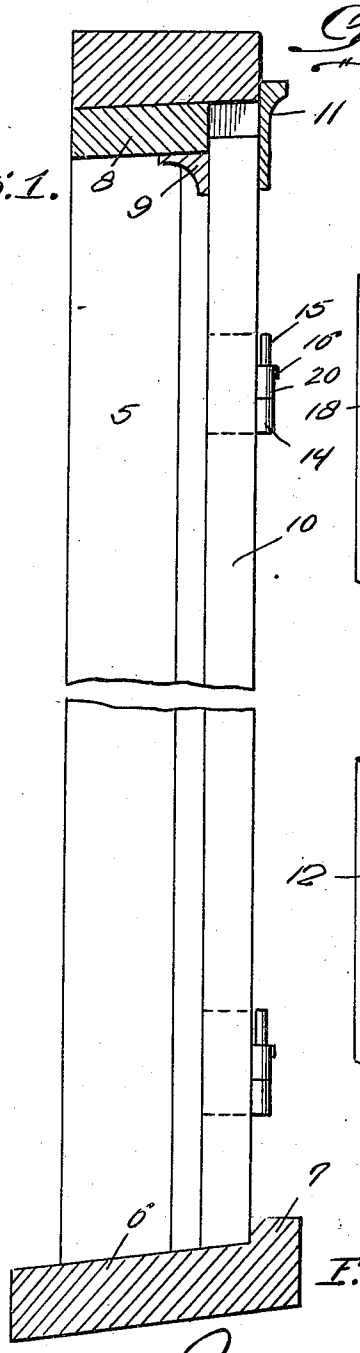


Fig. 3.

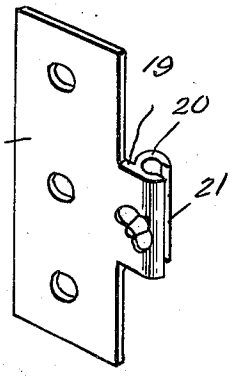
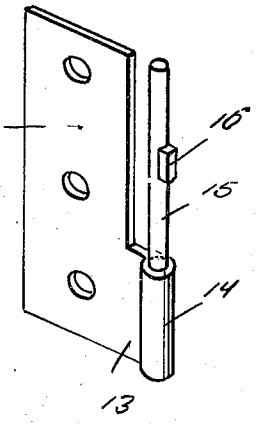


Fig. 4.



Inventor

F. W. Young,

Clarence A. O'Brien

Attorney

Patented Mar. 15, 1927. 1,621,047

UNITED STATES PATENT OFFICE.

FREDERICK W. YOUNG, OF SAFETY HARBOR, FLORIDA.

CASEMENT HINGE.

Application filed September 21, 1925. Serial No. 57,623.

The present invention relates to a casement, and aims to provide a weather proof structure wherein the casement is mounted for the usual swinging movement, and also has a vertical movement which allows the use of a weather proof flange rising from the sill at the interior thereof.

Another object of the invention is to provide a casement of this nature mounted for swinging movement in a sill wherein simple and efficient means is provided for allowing vertical movement of the casement, said means being exceedingly simple in its construction, and thoroughly reliable and efficient in its operation.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:—

Figure 1 is a sectional view through a window frame, showing my casement raised,

Figure 2 is a similar view showing the casement lowered,

Figure 3 is a detail perspective of one hinge leaf, and

Figure 4 is a detail perspective of the other hinge leaf.

Referring to the drawing in detail, it will be seen that 5 designates a window frame including the usual sill 6. A riser or flange 7, is provided at the inner edge of the sill. A strip 8 extends under the top of the frame and has molding 9 at its inner edge. The casement is indicated by the numeral 10, and has molding 11 at its upper edge for abutting the inner edge of the top of the frame when either raised or lowered.

The hinges used for mounting the casement in the frame may be of any desired structure. A preferred form, however, of the hinges is shown in Figures 3 and 4. The leaf plate 12 is attached to the frame and is provided with an extension 13 terminating in a sleeve 14 in which is fixed a pintle 15. This pintle 15 extends parallel with the edge of the plate 12 in spaced relation thereto. A lug 16 projects from an intermediate portion of the pintle. The distance between the lug and the sleeve 14 is little greater than the distance between the bottom of the casement, and the sill 6 when said casement is in the raised position as shown in Figure 1. The plate 18 of the other leaf is fixed to the casement, and has an extension 19 terminating in a split sleeve 20, for receiving the pintle 15 and lug 16. The split sleeve 20 provides the slot 21 which receives the lug 16 when the sleeve 20 rests on the sleeve 14 as shown in Figure 2. When the casement is raised, however, the lug is free of the slot, and thus the casement may be swung to an open position. The casement is adapted to swing inwardly of the frame. The lug and slot features of the hinge prevent the opening of the casement until it is fully raised to the position shown in Figure 1. When the casement is in the position shown in Figure 2 it will be seen that a fairly efficient weather proof structure is provided because of the riser 7, molding 9, and molding 11.

It is thought that the construction, operation, utility, and advantages of my invention will be clearly understood without a more detailed description thereof.

The present embodiment of the invention has been disclosed in detail merely by way of example since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description. It is apparent that numerous changes may be resorted to in the details of construction and in the combination and arrangement of parts without departing from the spirit or scope of the invention as hereinafter claimed, and without sacrificing any of its advantages.

Having thus described the invention, what I claim as new is:—

1. In a structure of the class described, a window frame, a casement, hinges for mounting the casement in the window, each hinge including a pair of leaves, one leaf having a pintle provided with a lug intermediate its ends, the other leaf provided with a split sleeve for receiving the pintle and the lug, said split sleeve being of less length than the pintle and of greater length than the distance between the lug and the bottom of the pintle.

2. As a new article of manufacture, a hinge for a casement structure of the class described including a pair of leaves, one leaf including a plate, an extension on one edge of the plate, a sleeve on said extension, a pintle in said sleeve extending parallel

with said edge, and a lug projecting from an intermediate portion of the pintle; said other leaf including a plate, an extension formed on one edge of the second mentioned plate, a second sleeve formed on the second extension, said second sleeve being split to provide a longitudinally extending slot, and a thumb screw piercing said split sleeve, said second sleeve being less in length than the pintle and of greater length than the distance between the lug and the top edge of the first sleeve.

In testimony whereof I affix my signature.

FREDERICK W. YOUNG.