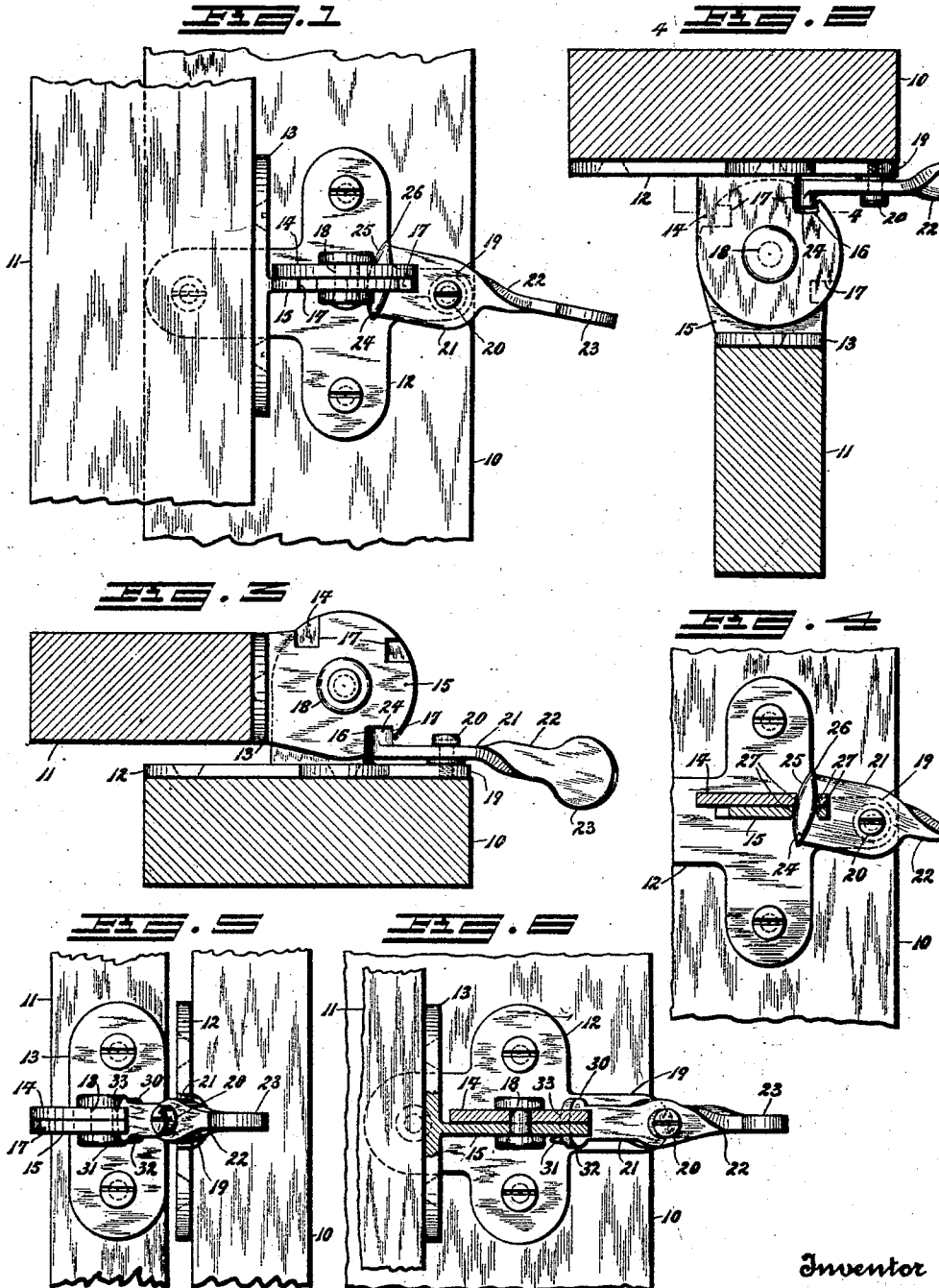


F. E. CARLISLE.
 ADJUSTING AND SECURING DEVICE FOR CLOSURES.
 APPLICATION FILED JULY 6, 1918.

1,304,454.

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ADJUSTING AND SECURING DEVICE FOR CLOSURES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRED E. CARLISLE, a citizen of the United States, residing at #1 Union street, White River Junction, in the county of Windsor and State of Vermont, have invented new and useful Improvements in Adjusting and Securing Devices for Closures, of which the following is a specification.

The invention relates to closures and has for an object to provide a device for supporting a closure and permitting an adjustment thereof relative to its frame or other part of a building or structure, with which the closure is associated.

The invention is particularly adapted for use in connection with blinds and doors and various forms of closures, such as, swinging windows and the like, and to this end provides a device effecting the swinging of the closure upon its frame or a support, with a means for securing the closure in an open, closed or semi-closed position; also preventing any rattling of the closure, as in the case of a shutter which would ordinarily tend to rattle if not properly held.

In the further disclosure of the invention, reference is to be had to the accompanying drawing, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a fragmentary side elevation looking at the edge or face of the frame, showing my device.

Fig. 2 is a plan view showing the closure in a slightly different position.

Fig. 3 is a bottom plan view,

Fig. 4 is a vertical sectional view taken substantially on the line 4—4 of Fig. 2,

Fig. 5 is a side elevation of a slightly modified form of the device, and

Fig. 6 is a vertical sectional view taken through the same.

Referring more particularly to the views, the numeral 10 indicates a window or door frame, and the numeral 11 a closure such as a shutter or door. A bracket 12 is secured to the frame 10 and a second bracket 13 is secured to an edge of the closure 11, the bracket 12 having a horizontally projecting plate 14, and the bracket 13 being provided with a similar horizontally projecting plate 15. The plate 14 is formed with a notch 16, and the plate 15 has a series of notches 17, the plates being arranged in

superposed position, and held together by a suitable pintle 18, serving to hinge the closure 11 upon the frame 10.

The bracket 12 is formed with a projecting arm 19 to swingingly support by means of a pin or screw 20, a latch or keeper 21, said screw also serving to hold the bracket 12 rigidly upon the face or edge of the frame 10. The keeper 21 consists of a body 22 formed with a weighted handle 23, and a right angled vertically extending head 24, which is in the nature of a cam, having its sides curved as shown at 25, said head or cam terminating in sharp edges 26.

By reference to the views, it will be seen that the various notches in the lower plate 15, upon swinging the closure, can be brought into registration with the notch in the upper plate 14, and that when one of the notches in the plate 15 registers with the notch in the plate 14, the cam or head of the keeper, passing through the registering notches will tend to lock the two plates against relative movement, or in other words, prevent any further swinging of the closure. It will be clear that by having the handle weighted that the keeper will naturally tend to swing so that the head or cam thereof will extend into the notches when they are brought into registration, and by having the cam formed with pointed ends and the curved sides as mentioned heretofore, it will be seen that the cam of the keeper will readily dispose itself in the registering notches, and the curved sides frictionally engaging curved faces 26 of the notches will result in a locking action that will prevent any rattling of the closure relative to the frame. By having the notches in the lower plate formed at specified points thereon, it will be seen that the closure can be locked in closed position relative to the frame, in open position relative to the frame, and in what might be termed a semi-open position. Or it may be, if desired, arranged to be locked in an entirely open or closed position, as the case may be.

In the modified form shown in the drawing, I have substantially the same construction, with the exception that the cam or head of the keeper is a slightly different shape, having an upper cam portion 30 and a pin 31 projecting through the lower portion 32, said pin or lug being adapted to bear against the under plate when the keeper is arranged in closed position, so as to pre-

vent the keeper from passing all the way through the notches that are in registration. The edge of the cam in this instance, furthermore, is convex, as shown at 33, so as to bring about a frictional engagement with the inner faces of the notches that are in registration, and thus prevent any rattling of the closure relative to the frame, when the closure is secured in a rigid position.

From the foregoing description it will be seen that the device described consists of few parts that can be cheaply manufactured, and that it will effectively perform the function for which it is adapted; the invention comprehending particularly a structure that cannot readily get out of order, and which can be manufactured at a low cost.

I claim:

A device for supporting and securing a closure upon its frame, comprising a bracket secured to the closure and including a horizontal plate projecting from the bracket, a bracket secured upon the frame and includ-

ing a horizontal plate projecting at right angles to the second named bracket, said brackets being arranged in superposed relation and contacting with each other and pivotally connected; said first named bracket being provided with a plurality of notches and said second named bracket plate being provided with a single notch adapted to be registered with by a selected one of said first named notches, a vertically swingable latch member pivoted upon said second named bracket and formed at one end with a weighted handle and at the other end with a head adapted to be passed partially through registering notches, the weighting of said handle end normally tending to bring said head into engagement with the registering notches, and the sides of said head being cam shaped whereby to hold said plates against relative movement.

In testimony whereof I affix my signature.

FRED E. CARLISLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."