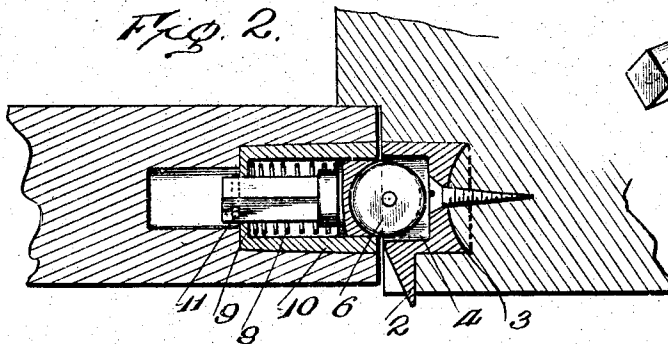
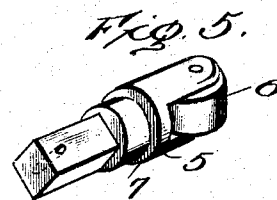
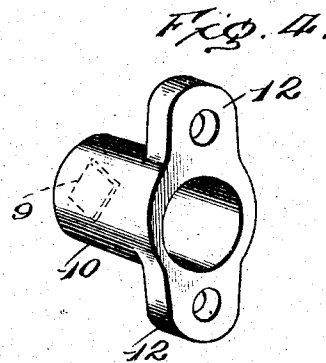
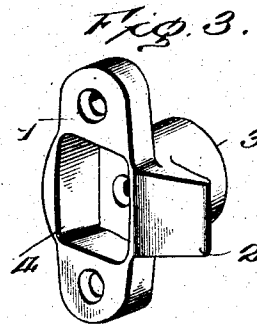
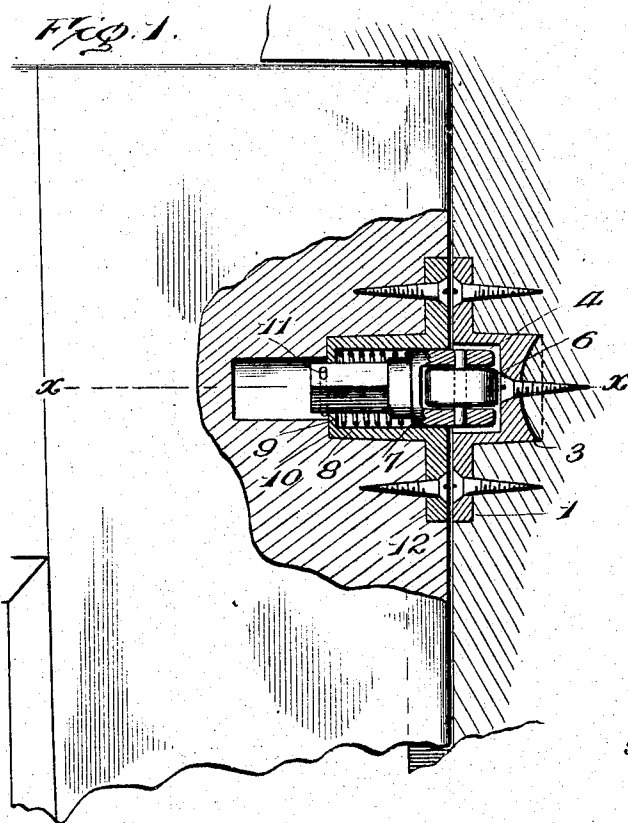


No. 874,659.

PATENTED DEC. 24, 1907.

E. CONKLIN.
DOOR CHECK AND TIGHTENER.
APPLICATION FILED SEPT. 17, 1907.



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Witnesses

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UNITED STATES PATENT OFFICE.

EDWARD CONKLIN, OF CHANNAHON, ILLINOIS.

DOOR CHECK AND TIGHTENER.

No. 874,659.

Specification of Letters Patent.

Patented Dec. 24, 1907.

Application filed September 17, 1907, Serial No. 393,294.

To all whom it may concern:

Be it known that I, EDWARD CONKLIN, a citizen of the United States, residing at Channahon, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Door Checks and Tighteners, of which the following is a specification.

This invention appertains to means for securing a door and at the same time holding the same within the frame or casement so as to prevent rattle or play which is objectionable in cold and windy weather.

The invention consists of a spring actuated plunger and a cooperating socket, said plunger being mounted in a casing which in turn is fitted to the door or like part to be equipped with the device.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a vertical sectional view of a portion of a door and door frame showing the application of the invention. Fig. 2 is a horizontal section on the line $x-x$ of Fig. 1. Fig. 3 is a detailed perspective view of the socket fitting. Fig. 4 is a detail view in perspective of the casing for the spring actuated plunger. Fig. 5 is a detail perspective view of the spring actuated plunger.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The check, stop, or holder comprises two parts, one a socket, the other a casing and a spring actuated plunger mounted within said casing. The socket consists of a plate 1 of oblong formation and provided at opposite ends with openings to receive screws or fastenings for holding the socket in place. An inclined lug 2 projects from an edge of the plate 1, the inclined side facing outward for the spring actuated plunger to ride upon when closing the door to which the invention is fitted. A boss or circular projection 3 extends from the rear side of the plate 1 and a depression 4 formed in the plate 1 extends into the said boss or projection 3 and forms the socket proper in which the projecting end of the spring actuated plunger fits. The socket or depression 4 is

located opposite to the inclined lug 2 and its opposite walls flare slightly to admit of the plunger riding thereon when applying sufficient force so that the door may be opened. The socket fitting is mortised in the jamb or other part to which it is fitted so as to come flush upon its outer side with the face of the jamb or like part.

The spring actuated plunger consists of a stem 5 forked at one end to receive a pulley wheel 6, the stem being angular and having a shoulder 7 near its inner end to form an abutment at one end for a coil spring 8 mounted upon said stem and confined between the shoulder 7 and a shoulder 9 at the inner end of the casing 10. A pin 11 is fitted in a transverse opening formed in the projecting end of the stem 5 and limits the outward movement of the plunger. The casing 10 is of cylindrical formation and is provided at one end with opposite ears 12 which are apertured to receive the screws or fastenings employed for holding the casing in place. The casing 10 is let into a mortise or opening formed in an edge of the door or other part to which it is applied so that the outer face of the ears and edge of the door come flush. By having the stem made angular in cross section and fitted in a corresponding opening formed in the inner end of the casing 10 the plunger is prevented from turning, thereby holding the pulley wheel 6 in a plane at a right angle to the line of the ears 12 so that it will maintain a given position to ride upon the inclined lug 2 and enter the socket or depression 4 with its axis in line with the length of the plate 1.

When applying the invention to a door the socket fitting is let into the door jamb with the inclined lug 2 facing outward and the casing 10 receiving the spring actuating plunger is fitted into an opening in the edge of the door in such relative position that when the door is closed the two parts of the device come opposite each other thereby enabling the projecting end of the spring actuated plunger to enter the socket or depression 4.

It is to be understood that the check or holder may be variously employed in connection with relatively moving parts to be held in a given position free from casual opening.

When fitted to a door the device is located a short distance from either the top or the bottom edge of said door, thereby securing

the same between the stops so as to prevent any play which is of advantage in cold and windy weather.

Having thus described the invention, what is claimed as new is:

1. In a fastener of the character specified the combination of a casing having one end closed and provided with an angular opening, a plunger slidably fitted within said casing and comprising an angular stem fitting the angular opening of said casing and having its opposite end forked to receive a pulley wheel, and a coil spring mounted upon the plunger and confined between a shoulder thereof and a corresponding shoulder at one end of the said casing.

2. A fastening of the character substantially as specified the same comprising two

parts, one consisting of a plate having a cylindrical projection and an inclined lug and having a depression forming a socket, the other part comprising a cylindrical casing closed at one end and having an angular opening formed therein, and having oppositely disposed ears at its opposite ends, and a spring actuated plunger mounted in said casing and comprising an angular stem forked at one end to receive a pulley wheel and having its angular portion fitted in said angular opening of the casing.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD CONKLIN. [L. S.]

Witnesses:

EMMA HULBERT,
GEO. T. HUTCHINS.