

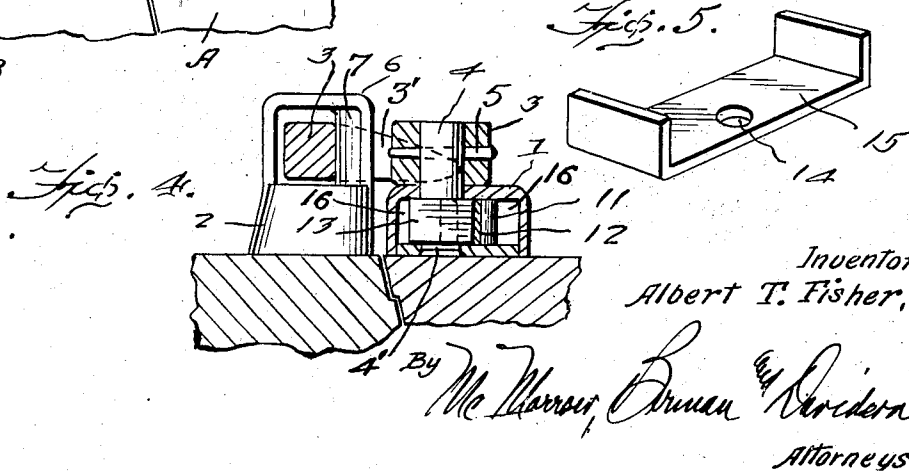
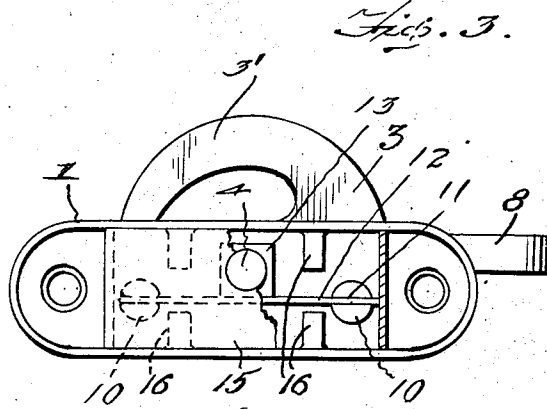
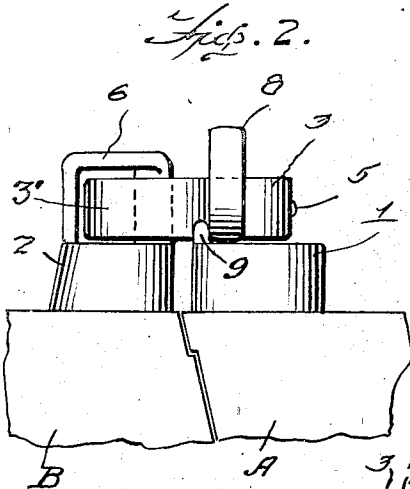
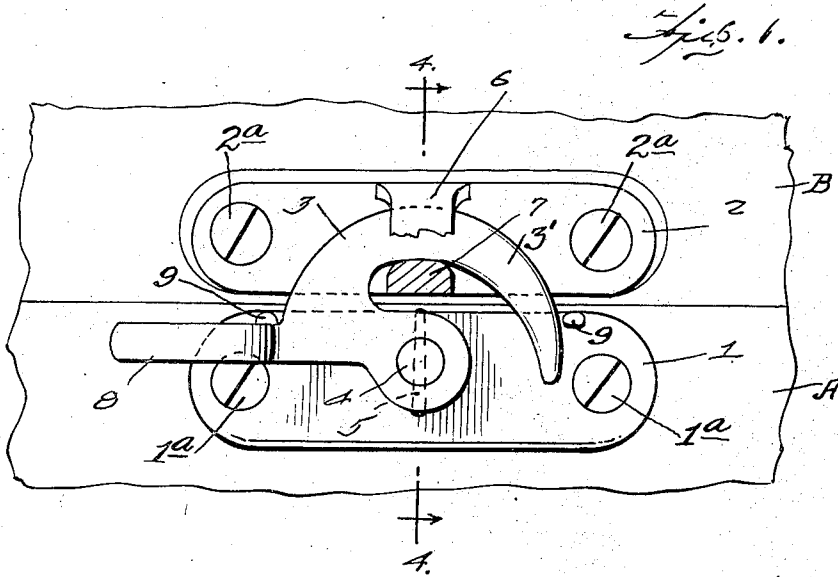
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A. T. FISHER

2,422,723

CLOSURE FASTENER

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Inventor  
Albert T. Fisher,

By *McWarr, Brown & Roderick*  
Attorneys

## UNITED STATES PATENT OFFICE

2,422,723

## CLOSURE FASTENER

Albert T. Fisher, Hartford, Conn.

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2 Claims. (Cl. 292-204)

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The present invention relates to closure fasteners and originally was part of my application for Letters Patent Serial Number 556,823, filed October 2, 1944. It is here set forth in a separate application as a continuation-in-part thereof.

The primary object of the invention is to provide a window fastener with an efficiently acting locking action to prevent unfastening from outside.

A further object of the invention is to provide a device of the character referred to of simpler and more compact construction than prior devices.

With the foregoing and other objects and advantages in view, the invention consists of the novel construction and arrangement of parts hereinafter described and claimed.

In the accompanying drawing illustrating the invention—

Figure 1 is a top plan view of the device in operative position.

Figure 2 is an end elevation thereof.

Figure 3 is a bottom plan view thereof.

Figure 4 is a vertical section on line 4-4 of Figure 1.

Figure 5 is a detail perspective view of the swivel-bolt holding plate.

Like numerals in the description and drawing designate the same parts of construction.

The complete fastener is made in two parts, that designated by the numeral 1 and designed to be secured on the top rail A of the lower sash of a window and that designated by the numeral 2 on the bottom rail B of the upper sash. These parts are screwed in place on opposite sides of the meeting edges of the sashes so as to be in juxtaposition by screws 1a and 2a respectively (see Figure 1).

Each of said parts or members comprises a hollow base of suitable height and elongated. On the top of part or member 1 and midway the ends, a swivel latch 3 is mounted detachably on a perpendicular bolt 4 which projects through the top of the base of part 1. A removable, tapered cotter pin 5 is passed through the latch and bolt, horizontally, to fasten the two elements together so that rotation of the bolt 4 is caused by the swivel movement of the latch 3. Projecting perpendicularly on the opposing motor 2 is a looped keeper 6 for said latch. It is positioned about midway of the ends of the base member 2 and is preferably arched or looped upwardly and provided interiorly with an arcuate side 7 designed to contact with the inner edge of the latch which is also arcuate. The arc of the latch is

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substantially concentric with the swivel-bolt 4. The keeper structure shown is substantially the same as that part of the invention retained in said application Serial Number 556,823 of which the present application is, as previously stated, a continuation-in-part.

Projecting laterally from the latch 3 is an integral finger grasp 8 with a perpendicular flat end. The swivel movement of the latch in each direction is limited by stop lugs 9 projecting from the top of the base 1. The base is open at the bottom and interiorly it is provided with two depending studs or lugs 10 suitably spaced apart and positioned longitudinally of the base. They are slit vertically, as at 11 (see Figure 3), for the reception of an elongated resilient metal blade or leaf spring 12, which impinges the facets of a polygonal enlargement 13 (preferably square, as shown) on bolt 4.

Bolt 4, which is provided with a reduced lower end portion 4', is inserted upwardly through an opening in the base member 1 and its reduced lower end portion is fitted rotatably in an opening 14 in a flanged plate 15. This plate is set in the base with its flanges uppermost and said end portion 4' of the bolt 4 is upset or flared for endwise retention in the opening 14 of the plate, which opening is correspondingly flared and by which provision the bolt is freely rotatable. When the bolt is emplaced in the opening of the base member 1 and the latch member 3 applied thereon, secured by the cotter pin 5, the plate 15 is drawn up in place tightly and holds spring 12 in place.

Preferably, as shown, the base member 1 is provided with oppositely disposed lugs 16 arranged in pairs on opposite sides of the swivel-bolt 4, and the same serve to support the plate 15 at different points between its ends when it is applied in place.

In operation, the latch when swung to open or closed position, rotates the polygonal body portion 13 under pressure of the spring 12. In one of said positions the latch is effectively locked with the keeper and is safe against outside tampering. In the keeper disengaged position of the latch the same is so held by the spring 12, which latter is practically effective in both the locked and unlocked positions of the latch.

It will be obvious that the invention may be used on various types of windows, such as the ordinary vertically sliding kind with upper and lower sashes, and also casement windows and the like.

Having thus described my invention, what I

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claim as new and desire to secure by Letters Patent is:

1. A closure fastener comprising a latch section attachable on one window sash for locking engagement with a keeper section attachable oppositely on a companion sash, said latch section having an arcuate latching member constructed to engage the keeper section, a rotatable swivel-bolt secured removably to said latch section and having a polygonal body enlargement and to which bolt the said latching member is detachably secured so as to rotate thereby and therewith, an elongated, flat spring element operatively mounted at its opposite ends on supporting studs provided at opposite sides of said swivel-bolt with the middle portion of said spring element bearing constantly flatwise on said polygonal body enlargement of the bolt, a removable plate constructed to fit within said latch section and retain said swivel-bolt against longitudinal movement while permitting free rotation of the bolt, and projecting stops positioned on the top of said latch section to limit the swinging movement of the latching member on said swivel-bolt.

2. A closure fastener comprising a latch section to cooperate with a separate opposed keeper section having an engageable holding member,

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a swingable lever arm pivotally mounted on the latch section and having an arcuate catch member projecting laterally therefrom for engagement with the holding member of the keeper section, a polygonal shaped element carried fixedly on the pivot of the lever arm, a pair of bifurcated studs on the latch section on opposite sides of the pivot of the lever arm, an elongated, single piece, straight, leaf spring having its end portions received in the bifurcated end portions of said studs with the intermediate portions of the spring disposed in face contact with the polygonal element on the said pivot, so as to yieldably hold the lever arm in its keeper engaged and disengaged positions.

ALBERT T. FISHER.

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