

UNITED STATES PATENT OFFICE.

ELZIE AMENT, OF ROGERS PARK, ILLINOIS.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 516,957, dated March 20, 1894.

Application filed October 28, 1893. Serial No. 489,336. (No model.)

To all whom it may concern:

Be it known that I, ELZIE AMENT, a citizen of the United States, residing at Rogers Park, in the county of Cook, State of Illinois, have
5 invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in sash fasteners of that class embodying a slotted strip on the one part and a locking bolt on the other part having means for quick engagement or disengagement thereof, and it has for its objects
15 among others to provide an improved fastener of this description by which the sash can be readily held at any desired point, without any particular care being taken to have the parts in just such a position as is necessary where
20 the guide is toothed and the locking bolt must be in position to engage a particular tooth. In order to secure an absolutely sure hold or grip I make the outer end of the bore in the base through which the locking bolt works
25 vertically elongated so that after being tightened in the usual way with the fingers the bolt may be moved downward at its point or head out of its horizontal plane, becoming tighter as force is applied to the sash to move
30 it upward. I also provide a spring arm which embraces with its right-angled bifurcated portion a squared portion of the bolt between shoulders thereon, and this spring serves to hold the bolt in a horizontal position, it prevents the bolt from turning, and, in conjunction with the shoulder on the bolt, it prevents too great a forward longitudinal movement of the bolt.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part
45 of this specification and in which—

Figure 1 is a front elevation of a portion of a window with my improvement in position, and the lower sash partially raised. Fig. 2 is
50 a longitudinal section of my improvement on the line 2—2 of Fig. 1, somewhat enlarged.

Fig. 3 is a cross section on the line 3—3 of Fig. 2, looking up. Fig. 4 is a perspective detail of the sliding bolt and the spring arm.

Like letters of reference indicate like parts
55 throughout the several views.

Referring now to the details of the drawings by letter, A designates a portion of a window frame and B a portion of the sash.

My invention is applicable to various uses; 60 it may be arranged upon the top of the lower sash with the guide upon the face of the upper sash; in this position it will serve to lock the two sashes together and the lower sash can be locked part way up or the upper sash
65 locked part way down, or both locked open a little distance; or, instead of being thus arranged, the guide may be on the lower sash near the lower end and the bolt and its operating mechanism secured to the side of
70 the frame. The guide is open at one end so as to permit of the sash being opened as far as desired. If the guide is arranged near the lower end of the sash the open end of the guide should be downward, but if the guide
75 is arranged near the upper end of the sash the open end should be uppermost; when the lock is on the top of the lower sash and the guide on the upper sash the open end should be uppermost. In the present instance the
80 guide is shown as upon the upper sash and the bolt upon the upper face of the top cross bar of the lower sash.

C is the channeled guide of any desired length and as fanciful as required, provided
85 with the holes *c* for the reception of the screws or other means *c'* by which it is secured in place. It is formed with the longitudinal slot *C'* open at one end as seen at *c²* and that end preferably beveled or tapered to facilitate the
90 entrance of the head of the bolt into the slot as will be readily understood. The flanges *C³* of the guide are not notched or toothed but are left plain as shown.

D is a casting or base provided with flanges
95 *d*, having holes *d'* for the reception of the screws or other means *d²* which fasten it in place. This base or casting is provided with a longitudinal chamber or bore in which is arranged the bolt E, which has a screw-threaded
100 opening or chamber *e* at one end and at the other end a head *E'* with a tooth *e'* as seen

best in Fig. 4 to engage the inner faces of the flanges C³ of the guide as seen in Figs. 2 and 3.

F is a screw having at one end a screw threaded portion to engage the threads of the chamber *e* of the bolt as seen in Fig. 2, and, outside the base or casting, provided with a flange *f* as seen in Fig. 2 to bear against the outer end of the base or casting, and with a milled portion F' by which it may be turned when desired. Within the base or casting the screw is formed with an annular groove *f'* in which works a screw G held in the base or casting as seen in Fig. 2 and which will permit of rotation of the screw and still prevent its longitudinal movement.

The bolt E has between its ends a squared portion E² as seen best in Fig. 4, and H is a spring arm held at one end in any suitable manner, as for instance by the screw G as seen in Figs. 2 and 3 to the base or casting and its other end is turned at a right angle to the length of the arm and is notched or bifurcated as seen at *h* in Fig. 4 and this bifurcated or notched portion embraces the squared portion of the bolt and serves to hold the bolt in its horizontal position, to prevent the bolt from turning, and, in conjunction with the shoulder on the bolt, limits its forward longitudinal movement.

The outer end of the bore or opening of the base or casting through which the screw and bolt work is somewhat elongated vertically so that the bolt after being tightened with the fingers in the usual way can be moved downward at its head or point, out of its horizontal plane so as to more securely hold the sash in place.

The operation will be readily understood. The turning of the screw in one direction or the other moves the bolt in or out; when it is desired to raise or lower the sash the screw is turned so as to disengage the tooth of the bolt from its engagement with the flanges of the guide when the sash is raised or lowered to the desired position and a few turns of the screw will bring the tooth of the bolt into contact with the flanges of the guide and firmly hold the sash in position.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages. For instance, by shortening the guide to say about one inch in length, so as to allow from one quarter to one half an inch for obstructions under the sash, and with a suitable base for fastening the guide to the meeting rail of the upper sash the fastener may be used in the center of the sash in the same manner as other meeting rail locks are used.

What I claim as new is—

1. The combination with a slotted guide having smooth-faced flanges, of a base with a sliding bolt with a head having teeth to engage said flanges, and a screw mounted for rotation and held against longitudinal movement and engaging said bolt to actuate the same, substantially as specified.

2. The combination with a slotted guide having flanges, of a base with a sliding bolt, a screw mounted for rotation and engaging said bolt to move the same longitudinally, and a spring arm held at one end and the other end engaging the bolt, as and for the purpose specified.

3. The combination with the flanged slotted guide, of a base, a bolt mounted to slide therein and having a head with teeth and a squared portion, a screw mounted for rotation to move the bolt longitudinally, and a spring arm having a right-angled end bifurcated and embracing the squared portion of the bolt, substantially as specified.

4. The combination with the slotted guide open at one end and having plain-faced flanges, of the base having longitudinal bore vertically elongated at one end, a bolt mounted to slide in said base and to have vertical play therein, and a screw mounted in the base for rotation and held against longitudinal movement, as set forth.

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

ELZIE AMENT.

Witnesses:

J. A. HAMANN,
P. W. AMENT.