May 20, 1930. R. L. GREIST 1,759,571

SASH GUIDE

Filed Nov. 15, 1928

Fig. 1.

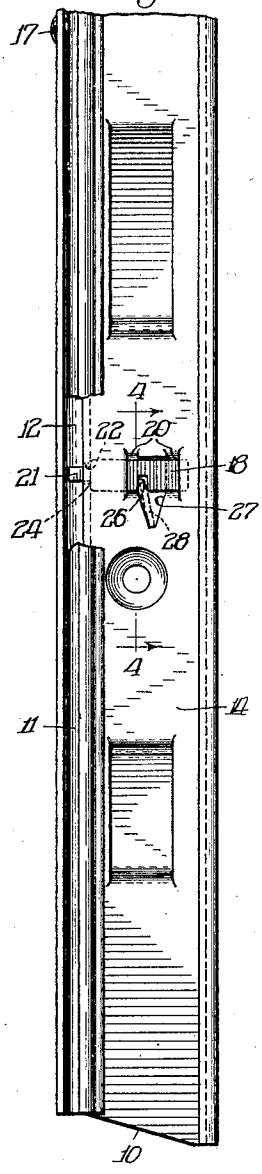


Fig. 2.

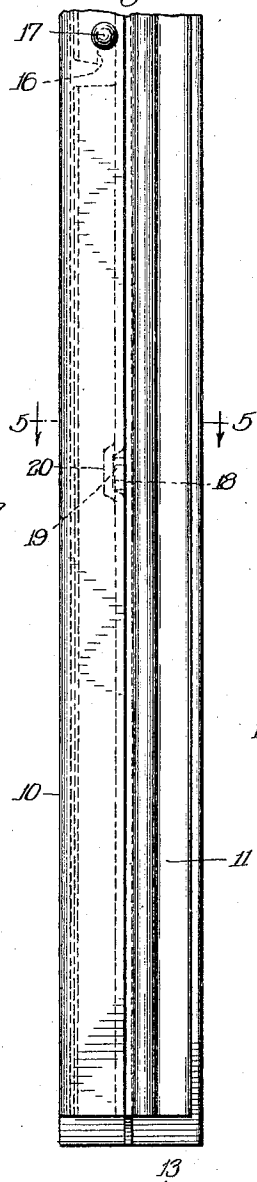


Fig. 3.

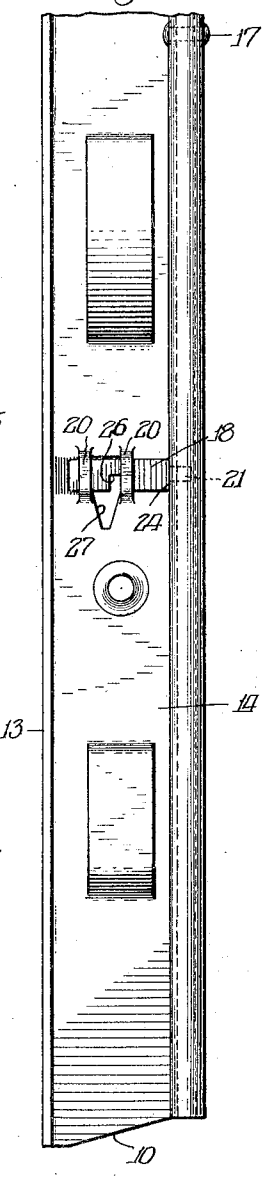


Fig. 4.

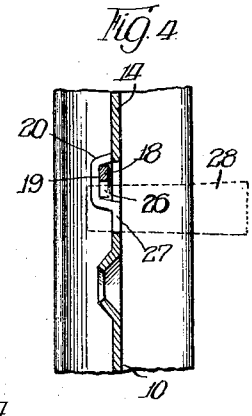
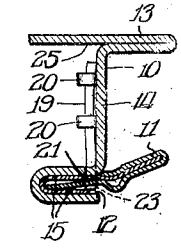


Fig. 5



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UNITED STATES PATENT OFFICE

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SASH GUIDE

Application filed November 15, 1928. Serial No. 319,509.

This invention has to do with sash guides of the detachable side wall type disclosed in Patents Nos. 1,659,657 and 1,659,658, and is particularly concerned with the manner in which the detachable side wall of the guide is held in position.

The purpose of the invention is to provide, in a guide of the type described, improvements for holding the detachable side wall in position.

In order that the invention may be readily understood, one form of the same is presented herein, but it will of course be appreciated that the invention is susceptible of embodiment in other structurally modified forms coming equally within the scope of the claims.

In the accompanying drawing:

Fig. 1 is a front view of the lower end of a sash guide equipped with the latch of the invention;

Fig. 2 is an inner side view;

Fig. 3 is a rear view;

Fig. 4 is a vertical section, taken on the line 4—4 of Fig. 1; and

Fig. 5 is a horizontal section, taken on the line 5—5 of Fig. 2.

The sash guide shown in the drawing is characterized by a fixed strip 10 and a detachable strip 11. The strip 10 is adapted to be fastened to the jamb of a window frame by screws or other suitable means and is provided at one side with a groove 12 and at the other side with a fixed side wall 13. If it is desired to have a guide from which a sash may be removed from either side, the fixed side wall 13 is dispensed with, and another groove, similar to the groove 12, is provided at that side of the strip in place of the fixed side wall.

The strip 10 is made of sheet metal, and is bent in such a way as to form the groove 12, the fixed side walls 13 and an intervening web 14. The strip 10 obviously may be bent in a great many other different ways to provide the portions described.

The strip 11 constitutes a removable side wall opposite the fixed side wall 13 of the strip 10, and is seated within the groove 12 in the strip 10. The portion of the strip 11 within the groove is preferably provided with a spring strip 15, which is soldered or secured in any suitable fashion to the inner edge of the strip and extends at an angle from the same.

When the guide is not occupied by the stile of a sash, the strip 11 will assume the canted position shown in Fig. 5 under the action of the spring 15, but, when the stile of a sash is in place in the guide, the strip 11, upon being inserted in the groove 12 in the strip 10, will be held by the stile of the sash in a position generally parallel to the fixed side wall 13 of the strip 10, in which position the strip 11 will be pressed resiliently against the stile of the sash by the spring strip 15.

The strip 11 is held in position in the groove 12 by means of bayonet slots 16 which are formed at intervals in the rear end of the strip 11 and interlock with rivets 17 which are positioned at corresponding intervals across the groove 12. After the strip 11 has been shifted rearwardly in the groove and then downwardly into interlocked engagement with the rivets 17, it is held against upward movement by means of a latch 18. The present invention resides in the construction, arrangement and operation of the latch.

The latch 18 consists of a substantially flat and generally rectangular sheet metal slide plate 19 which is shiftable laterally of the guide in a guideway formed by two rearwardly pressed loops 20 in the web 14 of the strip 10. The end of the slide 19 adjacent the groove 12 is reduced and formed into a nose 21, which nose projects through an aperture 22 in the inner side of the groove 12 into an aperture 23 in the strip 11 when the slide is shifted in that direction. The movement of the slide in that direction is limited by engagement of shoulders 24 on the slide with the inner wall of the groove 12 at the sides of the aperture 22, and is limited in the opposite direction by engagement of the other end of the slide with the rearwardly extending portion 25 of the fixed side wall 13.

In order to maintain the slide in any position into which it is shifted, the slide is made of spring metal, and is slightly bowed, as shown in Fig. 5, whereby to cause the end of the slide opposite the nose 21 to press re-

siliently against the rear face of the web 14, which web may be advantageously corrugated at that point to increase the resistance of the slide to movement. The slide 19 may be easily shifted into either its latched or its unlatched position by the employment of an ordinary screw driver. A narrow notch 26 is formed in one side of the slide, and a relatively wide V-shaped notch 27 is formed in the web 14 in diverging opposition to the notch 26. In order to shift the slide, the end of the blade of a screw driver, shown in dotted lines at 28 in Fig. 4, is inserted into the composite socket formed by the notches 26 and 27, and is turned in one direction or the other, employing the narrow end of the V-shaped notch 27 as a fulcrum in effecting the turning movement.

I claim:

1. In a sash guide, a fixed strip, a removable sash-retaining strip, and a laterally shiftable slide engageable with said sash-retaining strip to hold the same in position.

2. In a sash guide, a fixed strip, a removable sash-retaining strip, a laterally extending guideway in the fixed strip, and a laterally shiftable slide in the guideway engageable in an aperture in the sash-retaining strip to hold same in position.

3. In a sash guide, a fixed strip, a removable sash-retaining strip, and a laterally shiftable slide engageable with said sash-retaining strip to hold the same in position, said slide having a narrow notch in one side thereof and said fixed strip having a relatively wide V-shaped notch diverging toward the narrow notch whereby to form therewith a socket for the reception of the end of a screw driver.

In witness whereof I have hereunto subscribed my name.

RAYMOND L. GREIST.