

H. H. AKERS.

SASH LOCK.

APPLICATION FILED SEPT. 28, 1908.

910,482.

Patented Jan. 26, 1909.

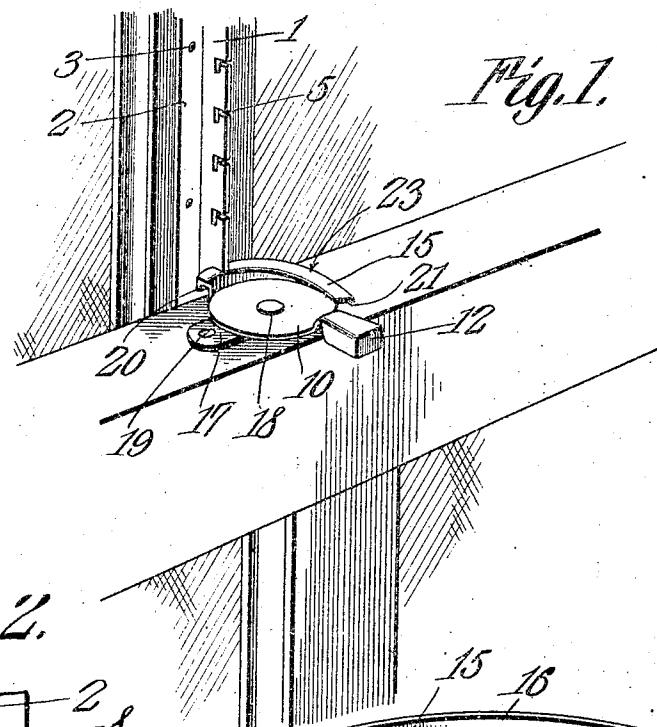


Fig. 1.

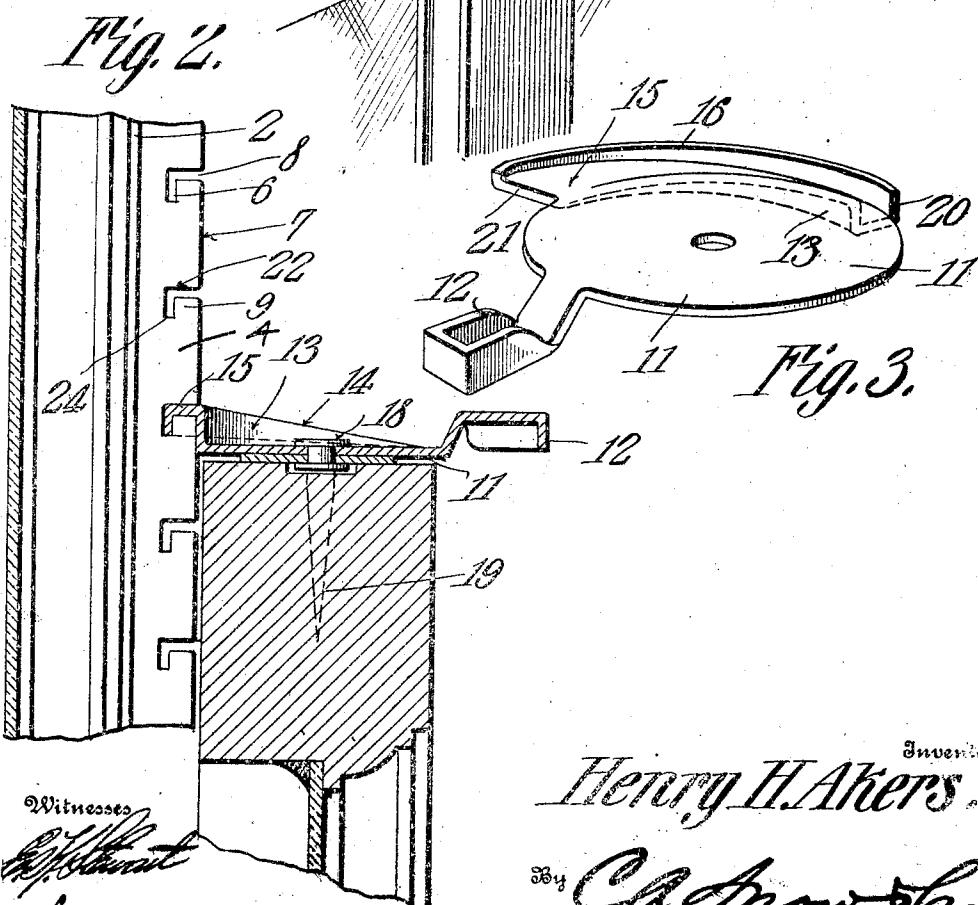


Fig. 2.

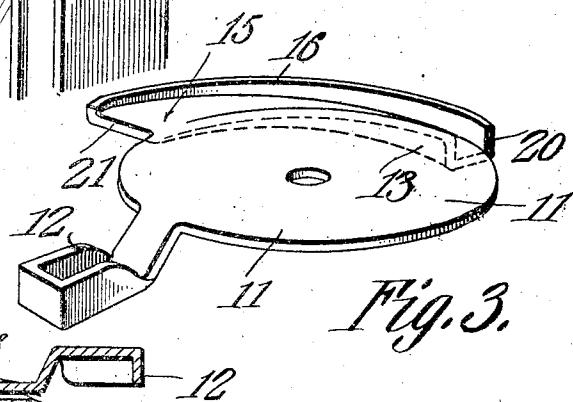


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY H. AKERS, OF CHERRYVALE, KANSAS, ASSIGNOR TO THE CHERRYVALE SPECIALTY MANUFACTURING COMPANY, OF CHERRYVALE, KANSAS.

SASH-LOCK.

No. 910,482.

Specification of Letters Patent

Patented Jan. 26, 1909.

Application filed September 28, 1908. Serial No. 454,964.

To all whom it may concern:

Be it known that I, HENRY H. AKERS, a citizen of the United States, residing at Cherryvale, in the county of Montgomery and State of Kansas, have invented a new and useful Sash-Lock, of which the following is a specification.

The objects of the invention are, the provision in a merchantable form, of a device of the above-mentioned class which shall be inexpensive to manufacture, facile in operation and devoid of complicated parts; the provision of a locking-strip of novel construction, and of a cam of new and improved form which shall engage the locking-strip in a secure manner; other and further objects being hereinafter made manifest, as the description of the invention progresses.

The invention consists in the novel construction and arrangement of parts herein-after described, delineated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that divers changes in the form, proportions, size and minor details of the structure may be made, without departing from the spirit or sacrificing any of the advantages of the invention.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

In the accompanying drawings, Figure 1 shows my invention attached to a pair of window sashes, one of which is locked to the other by means of my invention; Fig. 2 is a vertical section, the sectional plane being passed along the face of the flange member 4, the various parts of the device being in the positions shown in Fig. 1, the scale of the figure being somewhat enlarged that the construction may more readily appear; Fig. 3 is a detail perspective showing the bottom of the cam 10.

In carrying out my invention I provide a locking-strip 1, which may be of any form. Preferably however, as shown, it comprises a base member 2, and disposed substantially at right angles to the base member and integral therewith, a flange member 4. The base member 2 is provided with apertures 3 through which may be passed screws or like devices adapted to fasten the base member 2 to a vertical element of an upper sash of a window. The outer edge 7 of the flange

member 4 is provided with a plurality of slots 5. These slots 5 are L-shaped, and comprise a base portion 6 disposed substantially parallel to the outer edge 7, and a body portion 8 disposed substantially at right angles to the edge 7. When the slots 5 are constructed as above described, it will be seen that a shoulder 9 will be left upstanding in the plane of the flange member 4 and disposed between the outer edge 7 and the base portion 6 of the slots 5. I further provide a base plate 17 having apertures through which may be passed screws 19 or other means adapted to attach the said base-plate 17 to the top of a lower sash of a window. A pivot 18 connects a cam 10 with the base plate 17.

The cam 10 comprises an approximately circular body portion 11, from the periphery of which rises a flange 13 having an inclined upper edge 14, the flange being disposed substantially normal to the body portion 11 of the cam. Projecting laterally from the flange 13, and following the inclination of the edge 14, is the bearing member 15, which is wedge shaped in top plan, the base 21 or broader end of the wedge being disposed at the lower end of the bearing member 15. From the periphery of the bearing member 15, a lip 16 projects downward, substantially at right angles to the member 15. Viewed laterally, the lip 16 is wedge shaped, the base 20 of the wedge being disposed at the upper or higher end of the bearing member 15. A thumb piece 12 projects radially from the member 11 and serves as a means whereby the cam 10 may be moved to and from a locked position relative to the locking strip 1.

In practical operation, one or both of the sashes are raised until the base 21 of the member 15 is opposite the portion 8 of the slot 5. The cam 10 is then rotated by the thumb piece 12. The member 15 engages the portion 22 of the slot 5, and, as this portion 22 ascends the bearing member 15, the lip 16 will be forced into the base portion 6 of the slot 5. The outer edge 23 is eccentric with respect to the pivot 18 and therefore, the lip 16 will engage the shoulder 9 and draw the sashes together into a firm lock. As hereinbefore stated the lip 16 is wedge shaped, and the inclination of the sides of this wedge is such that when the lip 16 has engaged the shoulder 9 laterally and brought the sashes to a firm hold, the lip 16 will have

engaged the portions 22 and 24 of the slot 5 and wedged itself firmly therebetween.

I have shown the locking strip 1 as attached to the vertical element of the upper sash which divides the said upper sash into two parts when two panes are used in an upper sash, but it is obvious that, when but a single pane is used in the upper sash, my device may be otherwise disposed without 10 altering its structure.

Having thus described my invention, what I claim as new and desire to protect by Letters-Patent, is:

1. In a device of the class described, a locking strip comprising a base member arranged for attachment to an upright element of a window sash, and a flange member integral with the base member and disposed in a plane substantially at right angles thereto, the flange member having in its outer edge an L-shaped slot, the base of the slot being disposed substantially parallel to the outer edge of the flange member and downwardly inclined, the body portion of the L-shaped slot being disposed substantially at right angles to the outer edge of the flange; a shoulder upstanding in the plane of the flange member integral therewith, and disposed between the outer edge of the flange member

and the base of the L-shaped slot; in combination with a cam arranged for attachment to the top of a window sash and adapted to engage the shoulder.

2. In a device of the class described, a cam comprising an approximately circular body portion arranged for pivotal mounting upon the top of a sash; a flange rising from the body portion and provided with an inclined upper edge; a wedge shaped bearing member projecting laterally from the upper edge of the flange, the base of the wedge shaped bearing member being disposed at the lower end of said member; a wedge shaped lip depending from the edge of the bearing member, the base of the wedge shaped lip being disposed at the upper end of said member; in combination with a locking strip having a shoulder arranged to be laterally engaged by the lip and an upright slot arranged to engage the lip in wedging relation.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

HENRY H. AKERS.

Witnesses:

C. E. DACK,
E. D. RING.