No. 887,690. PATENTED MAY 12, 1908.

L. PEARCE.

SASH FASTENER.

APPLICATION FILED JULY 6, 1907.

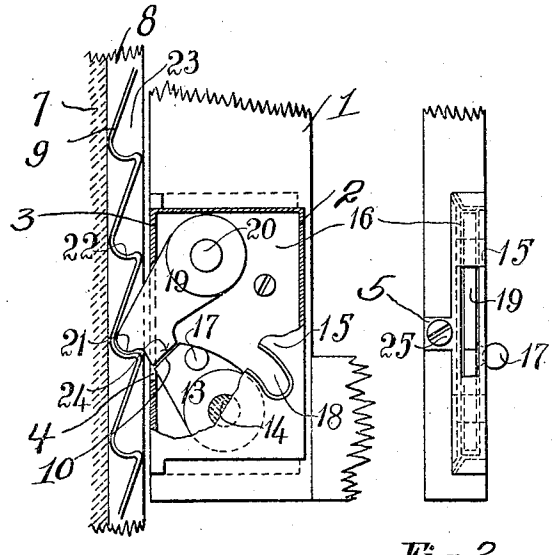


Fig. 1.

Fig. 2.

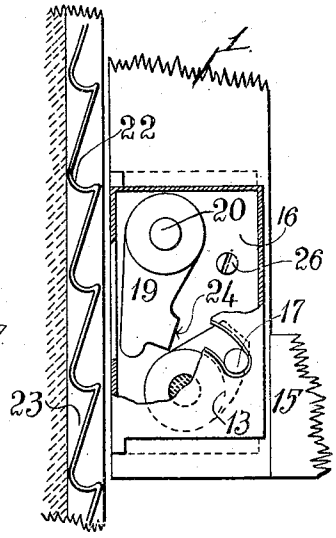


Fig. 3.

Witnesses:

Inventor

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UNITED STATES PATENT OFFICE.

LOUIS PEARCE, OF FREMANTLE, WESTERN AUSTRALIA, AUSTRALIA, ASSIGNOR TO DANIEL MULCAHY, OF FREMANTLE, WESTERN AUSTRALIA, AUSTRALIA.

SASH-FASTENER.

No. 887,690. Specification of Letters Patent. Patented May 12, 1908.

Application filed July 6, 1907. Serial No. 382,556.

To all whom it may concern:

Be it known that I, LOUIS PEARCE, a subject of the King of Great Britain, residing at Fremantle, in the State of Western Australia and Commonwealth of Australia, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

This invention relates to sash fasteners, and the object thereof is to provide a sash fastener in a manner as hereinafter set forth, particularly designed for use in connection with the windows of railway cars, but is also adapted for any other use for which it is found applicable.

Further objects of the invention are to provide a sash fastener which shall be simple in its construction, strong, durable, conveniently operated, efficient in its use, readily set up in operative relation with respect to the window sash and frame and inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists in the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown the preferred embodiment of the invention; but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the accompanying drawings wherein like reference characters denote corresponding parts throughout the several views—Figure 1 is a sectional elevation of a sash fastener in accordance with this invention showing the same in locking position; Fig. 2 is an end view thereof, and, Fig. 3 is a view similar to Fig. 1 with the fastener in an unlocked position.

Referring to the drawings in detail, 1 denotes a sash frame in which is mortised a casing formed of a front wall 15, a rear wall 16 and a pair of side walls 2 and 3, the latter being formed with an elongated slot 4. The casing has the side wall 3 thereof provided with a lug 5 through which extends a holdfast device 25 which engages with the sash frame 1, the lock 5 and holdfast device 25 constituting a means for securing the casing in position. The casing is furthermore secured to the sash frame 1 by a holdfast device 26 which extends through the same, openings being provided in the front and rear walls 15, 16 for the said holdfast device 26. In the drawings the front wall 15 is shown broken away.

The window frame is indicated by the reference character 7 and is formed with a groove 8 in which is positioned a rack so set up as to provide a series of pockets 23, the inner wall of each pocket which is indicated by the reference character 9 being inclined upwardly and outwardly while the bottom wall which is indicated by the reference character 22 is formed in a curvilinear manner and is of a length substantially equal to the depth of the groove 8.

Formed integral with the back wall 16 of the casing is a pivot 14 upon which is loosely mounted a locking pawl 13 having a flat nose 10. The pivot 13 is positioned near the lower end of the wall 16 and the said pawl 13 is provided with a button or stud 17 adapted to extend through the front wall 15 and travel in a curvilinear slot 18 which is formed in the front wall 15.

The stud or button 17 constitutes a means whereby the pawl 13 can be manipulated. Formed integral with the back wall 16 of the casing near the top thereof is a pivot 20 upon which is loosely mounted an arresting pawl 19 having a nose 21 and a heel 24. The nose of the pawl 19 is adapted to engage in one of the pockets 23 and when in such position the heel 24 of the pawl 19 is adapted to be engaged by the nose 10 of the pawl 13, whereby the arresting pawl 19 is retained in the position shown in Fig. 1 through the medium of the locking pawl 13.

The operation of the sash fastener is as follows: It will be assumed that the parts are in the position shown in Fig. 3. The pawl 13 is shifted so that it will engage the nose 21 of the pawl 19, such action rocking the pawl 19 on its pivot and forcing it through the slot 4 into one of the pockets of the rack. A further movement of the pawl 13 will force the nose of the pawl 19 to engage in one of the pockets 23 and as the pawl 13 continues to move the nose 10 thereof will engage the heel 24 and cause the pawl 19 to assume the position shown in Fig. 1, the movement of the pawl 19 being arrested by the top wall of the slot 4. The sash frame is so positioned that the nose 21 of the pawl 19 will engage the bottom wall 22 of the pocket 23 and as the pawl 13 is in the position shown in Fig. 1 the

sash will be locked from downward movement. If it be desired to release the fastener the pawl 13 is shifted rearwardly so that the nose 10 thereof will move from engagement with the heel 24 of the pawl 19. If the sash is moved vertically the nose 21 of the pawl 19 will engage the wall 9 of the pocket and the latter will force the pawl 19 into the casing which movement will be assisted owing to the fact that the lower end of the pawl 19 is weighted as it is provided with an offset portion the end of which constitutes the heel 24.

What I claim is—

1. In a sash fastener, the combination of a rack adapted to be mounted in a window frame and embodying a plurality of pockets each having the inner wall inclined upwardly and outwardly and terminating at its bottom in a curvilinear portion constituting an abutment, a casing secured to a sash frame, a pivoted pawl mounted within the casing and adapted to engage in a pocket of the rack, said pawl when said frame is shifted adapted to have its nose engaged by the inclined wall of the pocket, thereby forcing the pawl within the casing, said pawl provided with a nose, and a locking pawl pivoted in said casing and adapted to be shifted to engage the nose of the first mentioned pawl thereby locking said latter pawl in engagement in one of said pockets.

2. In combination, a rack secured in a window frame and formed with a plurality of pockets, a slotted casing carried by a sash frame, a pivoted pawl mounted within said casing and provided with a nose and a heel, said nose adapted to engage in the pockets of the rack, and a locking pawl pivoted in the casing and provided with a nose adapted to engage the heel of the first mentioned pawl thereby locking said pawl from movement when the nose of the last mentioned pawl is in engagement with one of the pockets.

3. In combination, a rack adapted to be carried by a window frame and formed with a plurality of pockets, a casing adapted to be secured to a sash frame and provided with a slot, an arrester pawl arranged within the casing and having its upper end pivotally connected to a pin in proximity to the upper end of said casing, said arrester pawl provided with a nose and a heel and adapted to be projected through said slot and have its nose engage in one of said pockets, thereby arresting the sash frame from movement, and a locking pawl arranged within said casing near the lower end thereof and provided with a nose adapted to engage the heel of the arrester pawl thereby locking said pawl from movement when the nose of the arrester pawl engages in one of said pockets.

4. In combination, a rack adapted to be carried by a window frame and formed with a plurality of pockets, a casing adapted to be secured to a sash frame and provided with a slot, an arrester pawl arranged within the casing and having its upper end pivotally connected to a pin in proximity to the upper end of said casing, said arrester pawl provided with a nose and a heel and adapted to be projected through said slot and have its nose engage in one of said pockets thereby arresting the sash frame from movement, a locking pawl arranged within said casing near the lower end thereof and provided with a nose adapted to engage the heel of the arrester pawl thereby locking said pawl from movement when the nose of the arrester pawl engages in one of said pockets, and means connected to the locking pawl and projecting through the front wall of the casing whereby said locking pawl can be manipulated to lock and release said arrester pawl.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LOUIS PEARCE.

Witnesses:
RICHARD SPARROW,
ROSS EAST.