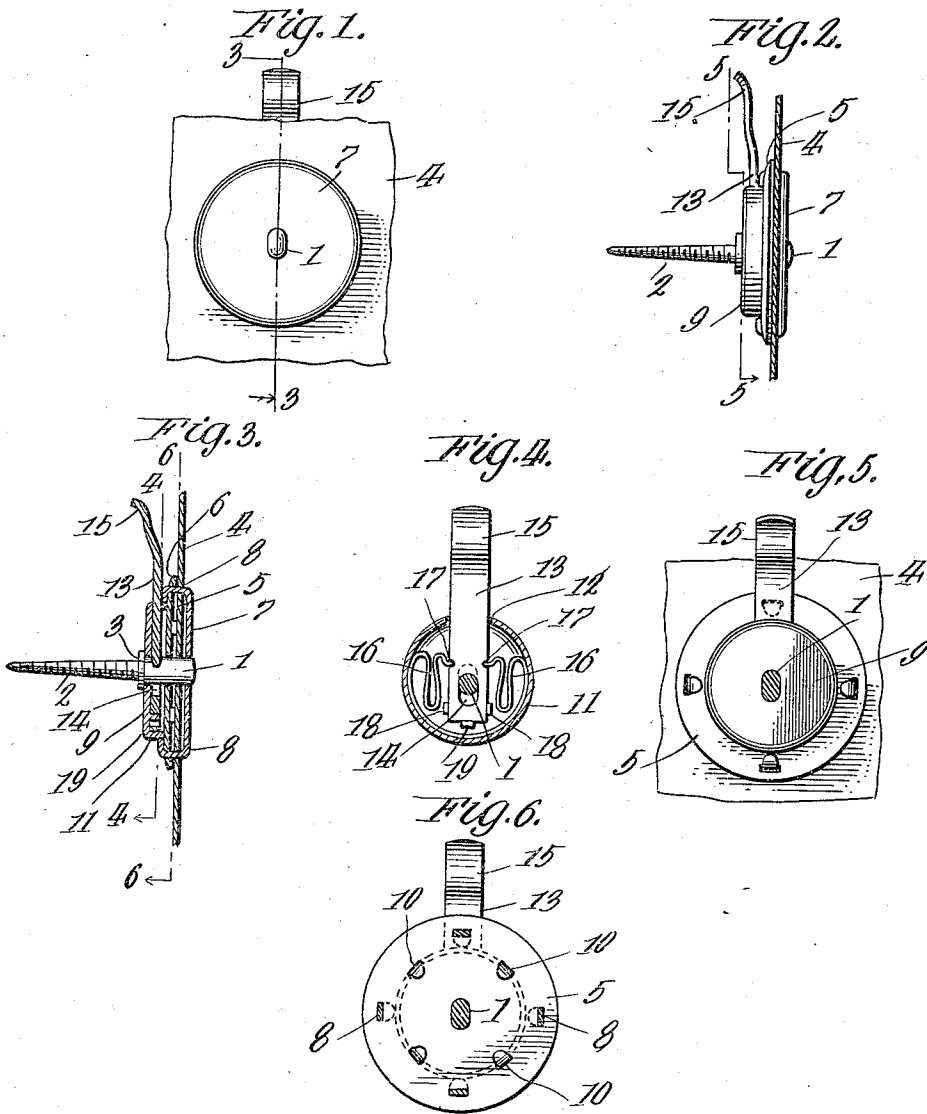


J. R. RAMSHAW.
CURTAIN FASTENER.
APPLICATION FILED MAR. 19, 1918.

1,296,427.

Patented Mar. 4, 1919.



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CURTAIN-FASTENER.

1,296,427.

Specification of Letters Patent.

Patented Mar. 4, 1919.

Application filed March 19, 1918. Serial No. 223,384.

To all whom it may concern:

Be it known that I, JOHN R. RAMSHAW, subject of the King of Great Britain, residing at Edmonton, in the Province of Alberta and Dominion of Canada, have invented certain new and useful Improvements in Curtain-Fasteners, of which the following is a specification.

My invention relates to new and useful improvements in a curtain fastener and more particularly to a device of this character adapted to be used on carriages and automobile curtains.

The primary object of the invention is the provision of a fastener which is simple and inexpensive in construction and adapted to be connected to the curtain in such a manner that it may be operated by the occupant of the vehicle without alighting from the vehicle or extending his hand and arm to the outside of the curtain.

A further object is the construction of the fastener with a spring catch whereby it will be securely held in position against accidental displacement.

Another object is the provision of means for connecting the fastener to the curtain fabric.

With these and other objects in view, my invention consists in the novel details of construction and the arrangement of parts which will be more fully understood from the following specification and drawings in which:

Figure 1 is a front view of the fastener.

Fig. 2 is a side view of the fastener.

Fig. 3 is a vertical section on the lines 3-3 of Fig. 1 looking in the direction of the arrow.

Fig. 4 is a transverse section on the line 4-4 of Fig. 3 looking in the direction of the arrow.

Fig. 5 is a transverse section on the line 5-5 of Fig. 2 looking in the direction of the arrow, and

Fig. 6 is a transverse section on the line 6-6 of Fig. 3 of the drawing.

In the drawings the numeral 1 indicates a stud or button provided with a threaded shank 2 and a notch 3. The threaded shank 2 is adapted to be engaged in the body of the vehicle at the desired points.

The curtain fabric is indicated at 4 and a plate 5 having a central opening therein is received upon the inner face of the fabric and is provided with two rows of circum-

ferentially spaced openings, as more particularly illustrated in Fig. 6 of the drawings, for the purpose as will be presently described. When I say that the plate is 60 connected to the inner side of the curtain fabric it will be understood that I mean that side adjacent the body of the vehicle. The plate 5 is slightly concave, as more particularly illustrated in Fig. 3, so that the 65 outer edge will engage the fabric 4 as indicated at 6. A plate 7, having a central opening adapted to register with the opening in the plate 5, is connected to the opposite side of the fabric 4 and is provided with 70 prongs 8 adapted to pass through the outer row of openings in the plate 5 and be bent to engage the opposite face of said plate 5. The fabric 4 held between the plates 5 and 7 is provided with a central opening adapt- 75 ed to register with the central openings in the plates referred to for the purpose as will be presently described.

A housing 9 is adapted to be connected to the inner face of the plate 5 by means 80 of prongs 10 which pass through the inner row of openings formed in said plate. The housing is provided with the flange 11 which engages the face of the plate 5 as more particularly illustrated in Fig. 3 of 85 the drawing. The housing 9 is provided with the slot 12 in the top thereof and a sliding plate 13 passes through said slot so that the lower end will be received in the housing. This sliding plate 13 is provided, 90 adjacent the lower end, with an elongated opening 14 and the upper end is curved as indicated at 15 to form a finger grip. Springs 16, preferably of the shape illus- 95 trated in Fig. 4 of the drawing, are connected to the housing 9 and engage in notches 17 formed in the edges of the sliding plate 13. These springs 16 normally hold the sliding plates 13 in its lowermost position. Projections 18 are formed on the 100 interior of the housing 9 and engage opposite edges of the sliding plate 13 and form a guide therefor. A similar projection 19 is formed beneath the projections 18, and intermediate thereof, and is adapted to be 105 engaged by the lower end of the sliding plate 13 to limit the movement thereof.

Having fully described the detailed construction of my device it is thought that the advantages and mode of operation will be 110 clearly understood. In curtain fasteners as now commonly constructed considerable dif-

5 difficulty has been experienced in fastening
 or disengaging the curtain while the person
 is in the vehicle. As ordinarily constructed
 it is necessary for the person to reach around
 10 the curtain to get his hand on the outside
 to fasten or disconnect. It is to overcome
 these objections that my invention is intend-
 ed and I have provided a fastener whereby
 the curtain may be easily fastened or dis-
 15 engaged by the person while still in the
 vehicle. When the curtain is fastened the
 parts will be in the positions indicated in
 the drawings so that the stud or head 1
 will pass through the central openings in
 20 the housing 9, plate 5, fabric 4, and plate 7.
 The upper end of the elongated slot 14 in
 the plate 13 will engage in the notch 3 of
 the head or stud 1 so that the curtain will
 be securely connected to the vehicle body.
 25 When it is desired to disconnect the curtain
 the curved portion 15 of the plate 13 is
 grasped by the fingers and the plate raised
 against the tension of the springs 16 so
 that the notch 13 is disengaged from the
 30 plate. The curtain can then be raised as
 desired. When it is again desired to con-
 nect the curtain this can be done by merely
 pushing the head or stud 1 through the
 fastener, the plate 13 will be raised against
 the tension of the springs 16 and drop into
 the notch 3. The projections 18 form a

guide for the lower end of the plate 13 and the projection 19 limits the movement of said plate.

Having fully described my invention, 35 what I claim as new and desire to secure for Letters Patent is:—

1. A curtain fastener comprising a notched stud, a housing secured to the curtain, a sliding plate mounted in the housing and 40 provided on the edges with notches and adjacent the lower end with an elongated opening adapted to receive the stud, and springs secured to the housing and adapted to engage the notches in the edges of the plate. 45

2. A curtain fastener comprising a notched stud, a housing secured to the curtain, longitudinally spaced projections formed on the interior of the housing, a projection formed intermediate and slightly below the first 50 mentioned projections, a slidable plate mounted in the housing with the lower end received between the first mentioned projections and on the second mentioned projection, and a spring connected to the plate. 55

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

JOHN R. RAMSHAW.

Witnesses:

WILLIAM SOUTER,
CYRIL COPELAND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."