F. H. ILSE.

FASTENING DEVICE.

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1,187,994. Patented June 20, 1916.

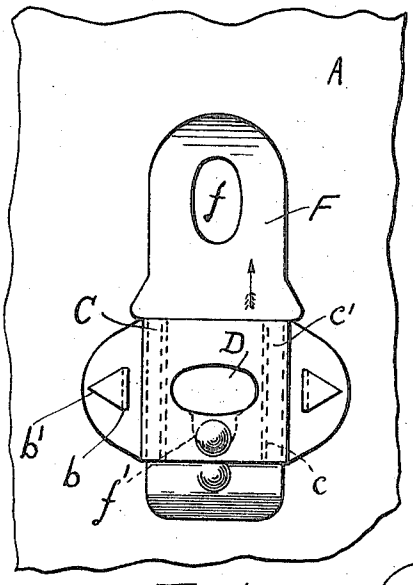


Fig. 1

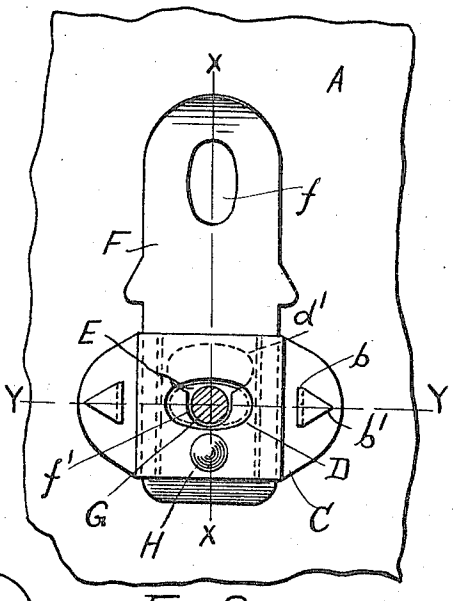


Fig. 2

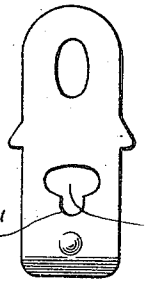


Fig. 5

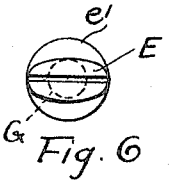


Fig. 6

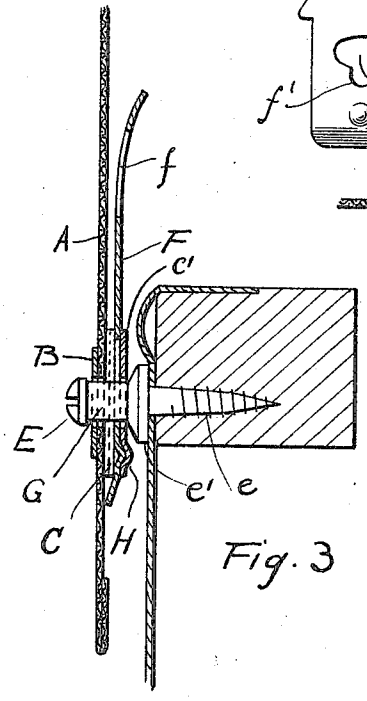


Fig. 3

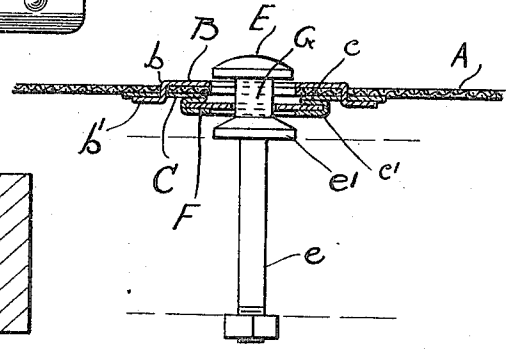


Fig. 4

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FASTENING DEVICE.

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To all whom it may concern:

Be it known that I, FRANK H. ILSE, who am a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Fastening Devices, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to fasteners for curtains and the like for automobiles and consists in the apparatus, arrangements, and combinations hereinafter described and specified in the claims.

In the drawings—Figure 1, is a plan view of the device attached to a section of curtain with the extension or button removed and in the detachable position. Fig. 2, is also the device attached to a section of a curtain partially in section and in the locked position. Fig. 3 is a vertical, central, sectional view of the apparatus on the line X—X of Fig. 2. Fig. 4, is a longitudinal section on the line Y—Y of Fig. 2. Fig. 5, is a detail view of the locking device separate from the rest of the apparatus. Fig. 6, is a view of the top of the button.

Similar letters refer to similar parts.

In the drawings, A represents a section of a curtain. To the curtain is attached two plates, an outside plate B, not shown in Figs. 1 and 2, and an inside plate C. The outer plate B has preferably tongues *b*, *b* which extend through perforations in the curtain fabric and the inside plate C and clench down, as shown in Figs. 1 and 2, at *b'*, *b'*, thus fastening the two plates together. Both plates have oval openings D which register. The two plates together form what I call an eyelet. A button E having a screw shank *e* and a flanged head *e'* is rigidly fastened to any appropriate part of the body, preferably by the screwthreads, although it is obvious that the device might be a bolt with a nut upon the inside end, as shown in Fig. 4, if desired.

As I have shown in alternate construction, both Figs. 3 and 4 are different modes of fastening the head of the button E, also oval in form, as shown in Fig. 6, and is slightly smaller than the oval opening D and also smaller than that part of the opening *d'* on the locking device as shown in Fig. 5. The inner plate C is formed by folding it twice upon itself at *c*, *c'* and is perforated by an aperture that is large enough to receive the button E therethrough; the folds being open, permit the locking device to slide therein as the folds form ways therefor. The folding of the inner plate twice upon itself forms a pair of guides and a boss *c'*.

The locking device consists of a strip of metal F having a curved outer end and preferably a perforation *f* therein, as a thumbpiece, by which it can be slid in and out of the ways formed by the folds *c c'*. The locking slide is provided with ears projecting from its sides which prevent the slide being pushed through the eyelet. The locking device F is also formed with a perforation having an oval portion corresponding practically with the opening in the plates B and C and enabled to fit the head or button E. On one side of this oval opening is formed a half oval extension thereof *f'*. The transverse diameter of this smaller side opening *f'* is substantially the size of the shank G of the button, so that when the slip or locking device is in the position shown in Fig. 1 the head of the button E can pass through the opening D and also through the oval portion of the locking device F. When in this position a slight movement of the locking device in the direction of the arrow shown in Fig. 1, or to the position shown in Fig. 2, causes the opening *f'* to engage the neck of the shank G of the button standard and thus locks the standard in position so that the curtain with the structure attached thereto could not be detached from the button until the locking device F is again restored by the opposite movement to the position shown in Fig. 1. A detent H is formed in the part *c'* and in the lock F, as shown at H, which increases the friction and prevents accidental movement of one part upon the other as the slide has a correspondingly formed detent (see Fig. 5) which can engage with the detent of the boss *c'*. This constitutes a very simple and cheap device and one that could be operated from the inside of the carriage both to lock and unlock the curtains thereon and without in any way being obliged to place the operator's hand outside of the curtain.

The mode of operation of this device is clearly apparent from the foregoing description.

It is obvious that my invention could be modified in many ways and yet retain its essential characteristics, and without departing therefrom.

What I claim is:

1. A curtain fastener, comprising an outer plate, an inner plate fastened thereto and folded twice upon itself in two places to form a boss with guides at the sides thereof, a locking slide provided with an opening having an extension therefrom of restricted diameter, the said two plates being provided with central openings with which the large portion of the slide opening may register or the restricted extension, and a button whose head can pass through the openings in the plates and the slide when the opening in the latter has the large portion in registry with the openings of the plates and which is restrained from escape when the restricted portion of the slide opening engages about the shank of the button, the said locking slide being slidable in the said guides at the sides of the boss and being held from accidental displacement in the locking position by means of a stress engagement between the plates and the slide.

2. A curtain fastener, having in combination, an inner plate provided with a central aperture, an outer plate provided with a central aperture, means for securing said two plates together, the said inner plate being folded to form guides, a locking slide slidable in said guides and provided with an aperture having a restricted extension, a button whose head can pass through the slide and the plates when the large aperture of the slide is in registry with the apertures of the plates but which is prevented from escape when the restricted portion of the slide aperture engages about the shank of the button, and means for preventing the slide and the plates from disengaging, one of the plates being provided with a detent or depression and the slide being provided with a detent or projection which can engage with the detent of the plate to hold the slide in the locking position.

3. A curtain fastener, having in combination, an outer plate provided with a central aperture, an inner plate provided with a central aperture, means for fastening the two plates together, the inner plate being arranged to form guides, a slide slidable in said guides and provided with an aperture having a restricted extension, said slide being provided with ears which engage with the inner plate to prevent the escape of the slide from the plates when the slide is operated to bring it to the unlocked position, and a button whose head can pass through the plates and the slide when the large portion of the slide aperture is in registry with the apertures of the plates and which is prevented from escape when the restricted portion of the slide aperture engages about the shank of the button, the said slide and inner plate being arranged to form a stress engagement to hold the slide in a locking position.

In testimony whereof, I sign this specification.

FRANK H. ILSE.

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