E. S. CHURCH.

CURTAIN FASTENER.

APPLICATION FILED JUNE 13, 1917.

1,298,666. Patented Apr. 1, 1919.

Fig. 1.

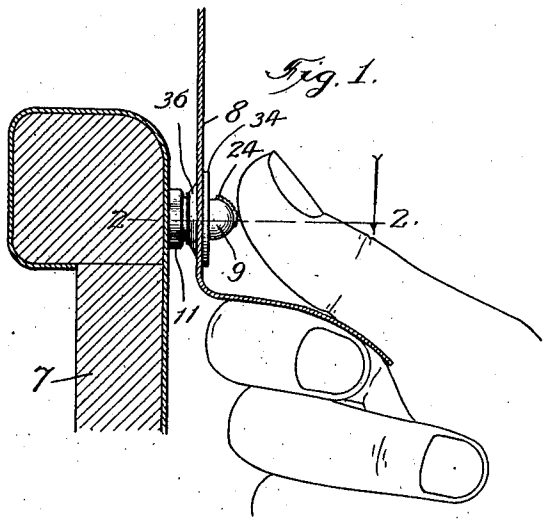


Fig. 5.

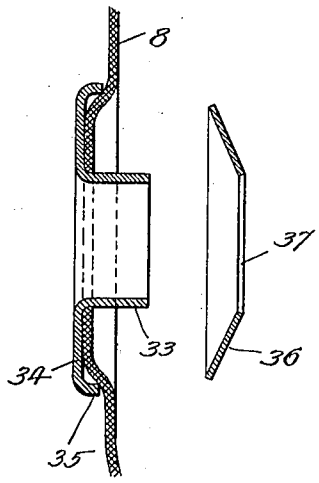


Fig. 2.

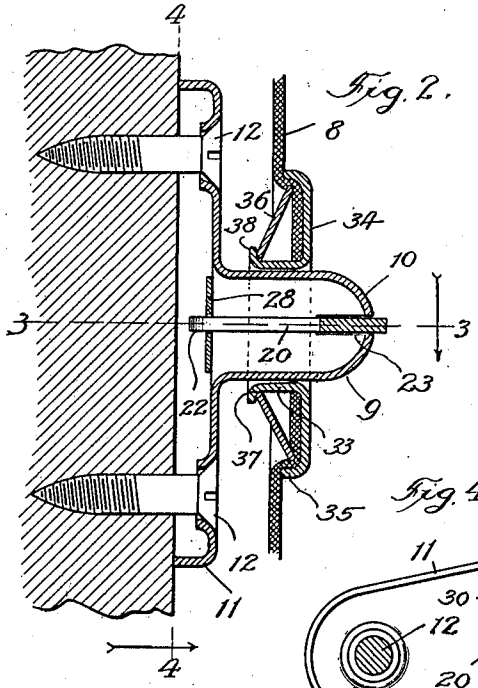


Fig. 3.

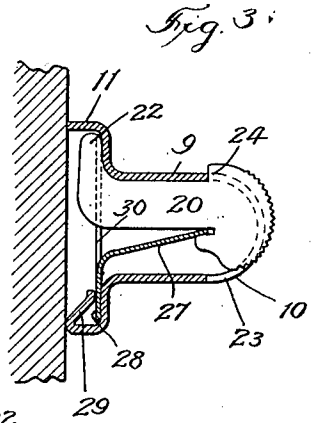
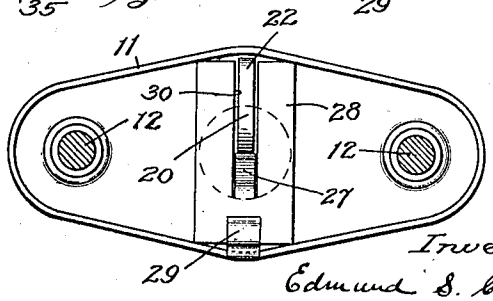


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CURTAIN-FASTENER.

1,298,666. Specification of Letters Patent. Patented Apr. 1, 1919.

Application filed June 13, 1917. Serial No. 174,461.

To all whom it may concern:

Be it known that I, EDMUND S. CHURCH, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Curtain-Fasteners, of which the following is a full, clear, and exact description.

The invention relates to fasteners such as are adapted for holding curtains on automobiles.

One object of the invention is to provide an improved fastener of the type set forth in an application filed by me March 10, 1917, Serial No. 153,818 with improved means for yieldingly holding the latch in the stud.

A further object of the invention is to provide an improved device for fastening metallic washers or sockets to curtains or flexible material, which is adapted for application to material of different thickness and to receive a stud with a fastener thereon.

The invention consists in the several novel features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings: Figure 1 is a side elevation of the improved fastener with the support and curtain in section showing the manner of manipulating the fastener to release the curtain. Fig. 2 is a horizontal section taken on line 2—2 of Fig. 1. Fig. 3 is a section taken on line 3—3 of Fig. 2. Fig. 4 is a back view of the base of the hollow stud. Fig. 5 is a detail showing the socket members separated and before the spring-washer has been secured in the socket.

The invention is shown as applied to a suitable support 7 to hold a flexible curtain 8. The improved fastener comprises a hollow stud 9 having a rounded or convex outer end 10 and is formed with an integral hollow base 11 provided with holes for screws 12 whereby the stud may be rigidly secured to a support. The stud and base are preferably formed of sheet metal. A latch-plate 20 disposed in the hollow stud and extended through a transverse slot 23 formed in the curved terminal 10 of the stud, is formed with a stop portion 24 disposed normally to project beyond the periphery of the stud to prevent the curtain from being withdrawn. The inner end of the latch-plate is provided with an outwardly extended offset pivot or holding lug 22 adapted to bear against the back face of the front wall of base 11. This lug limits the outward longitudinal movement of the latch plate and also serves as a pivot or holding portion for the latch-plate. The latter is normally held in operative position by a spring-tongue 27 on a slotted plate 28 which is secured in the base of the stud by a tongue 29 on the base. Plate 28 and tongue 27 are integral, the tongue being formed by suitably slitting the plate and bending the tongue into position to act as a spring for the latch-plate. Bending the tongue 27 from the plate 28 leaves a slot 30 for the inner end of the latch plate and whereby it will be held against transverse movement in the stud so that the plate serves as a guide for the latch and the tongue struck-up from the plate 28 will serve as a spring for the plate. Tongue 27 is integrally formed with the rim of the base 11 and bent into position to hold the holder-plate after the latch-plate has been placed in position in the stud. This manner of holding the latch is simple and the construction is one which can be produced at a very low cost.

A socket or eye on the curtain 8 for securing it to the stud comprises a member having a tubular hub-portion 33 and an integral face portion 34 having a marginal inturned flange 35 thereon and a spring-washer 36 having its periphery or outer edge formed to compress and force the curtain into the corner between the flange 35 and face 34 of the sleeve member. The washer 36 has a central opening 37 adapted to fit around the tubular portion 33 and an outwardly turned flange 38 on the tubular portion 33 is adapted to hold the spring washer in operative position. The flange 38 is formed or struck up on the tubular portion 33 after the washer 36 and curtain 8 have been placed on the tubular socket-member. The curtain has an opening formed therein to receive the tubular portion 33 of the socket. An important characteristic of this manner of providing a socket on the curtain is that the outer periphery of the spring washer forms a bend in the curtain and forces it into the corner of the socket, and by reason of its spring-like character, the device is adapted to secure curtains substantially different in thickness on the socket.

The invention is not to be understood as

restricted to the details set forth, since these may be modified within the scope of the appended claims, without departing from the spirit and scope of the invention.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a fastener for curtains and the like, the combination of a hollow stud provided with means whereby it may be secured to a support and having a transverse slot at its outer end, a latch movably sustained in the hollow stud, having its outer portion extending through said slot and projecting from said stud to hold a part on the stud and movable in the slot to release said part, and a plate secured at the back of the hollow stud and having a tongue acting as a spring for normally holding the latch in operative position.

2. In a fastener for curtains and the like, the combination of a hollow stud provided with means whereby it may be secured to a support and having a transverse slot at its outer end, a latch movably sustained in the hollow stud, having a portion extending through said slot and projecting from said stud to hold a part on the stud and movable in the slot to release said part, and having an offset guide lug at its inner end engaging the base of the stud, and a spring for normally holding the latch in operative position.

3. In a fastener for curtains and the like, the combination of a hollow stud adapted to be secured to a support and having a transverse slot at its outer end, a latch movably sustained in the hollow stud, having a portion extending through said slot and projecting from said stud to hold a part of the stud and movable in the slot to release said part and a plate secured at the back of the hollow stud, having a tongue acting as a spring for normally holding the latch in operative position and having a slot formed therein for guiding the latch plate.

4. In a fastener for curtains and the like, the combination of a hollow stud provided with means whereby it may be secured to a support and having a transverse slot at its outer end, a latch movably sustained in the hollow stud, having a portion extending through said slot and projecting from said stud to hold a part on the stud and movable in the slot to release said part, a plate secured at the back of the hollow stud and having a tongue acting as a spring for normally holding the latch in operative position, and an integral tongue on the stud extended to secure said plate in position.

EDMUND S. CHURCH.

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