H. C. GOODRICH.

MOUNT FOR HOOKS, EYES, AND LOOPS.

APPLICATION FILED MAR. 20, 1911.

1,019,735.

Patented Mar. 5, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

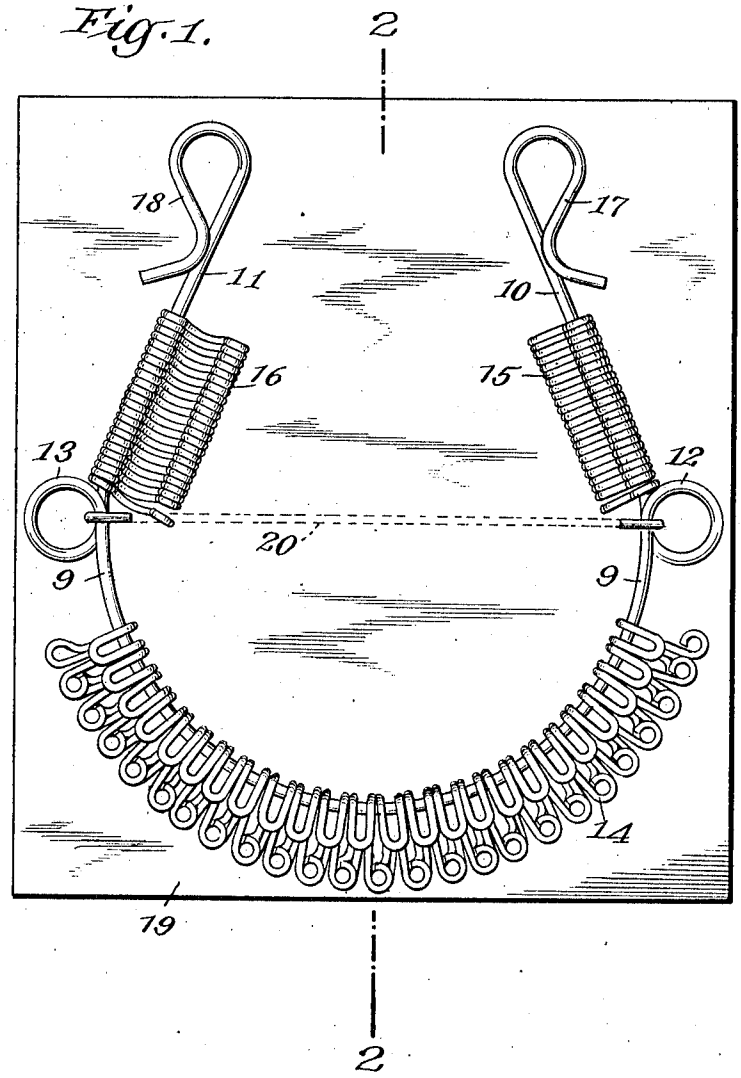
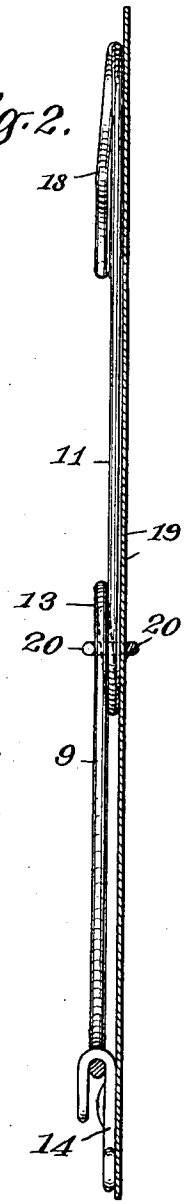


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

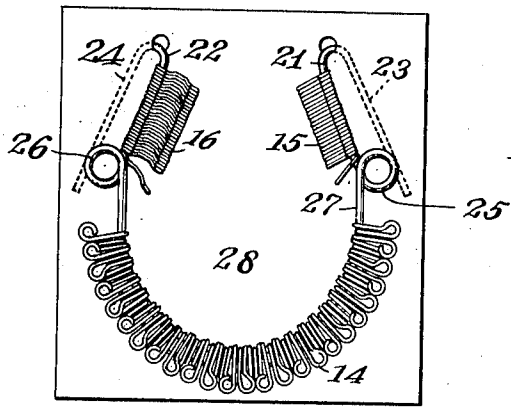


Fig. 4.

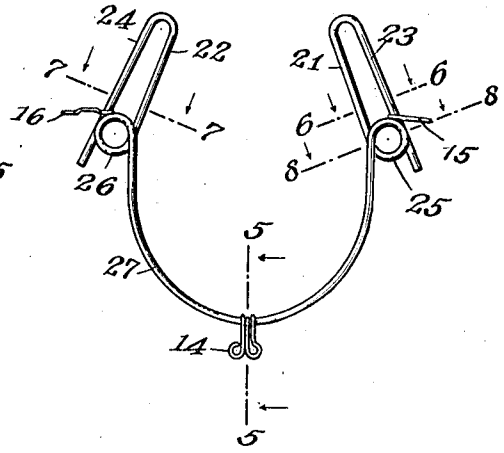


Fig. 5.

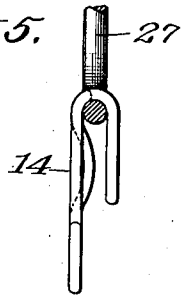


Fig. 6.

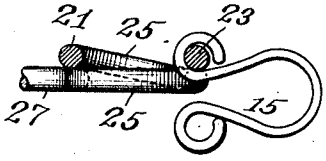


Fig. 7.

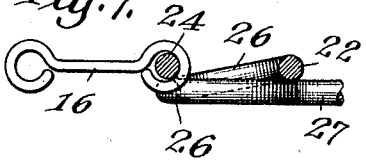
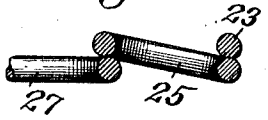


Fig. 8.



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MOUNT FOR HOOKS, EYES, AND LOOPS.

1,019,735. Specification of Letters Patent. Patented Mar. 5, 1912.

Application filed March 20, 1911. Serial No. 615,509.

To all whom it may concern:

Be it known that I, HARRY CLINTON GOODRICH, a citizen of the United States, residing at Palisade, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Mounts for Hooks, Eyes, and Loops, of which the following is a specification, reference being had therein to the accompanying drawings, forming part thereof.

My invention relates to mounts for the hooks, eyes and loops employed as garment fasteners, and the general objects of my invention are economy, simplicity, security and convenience.

My invention aims to simplify the work of mounting the articles and to reduce the expense thereof; to afford security in holding the articles when mounted, both for purposes of storage, transportation and exhibition by the manufacturer and seller and for all the purposes of the user; and to afford a ready and convenient selection and separation of the articles as required by the user, without liability of loss or mixing or confusion of the unseparated articles.

Other objects of my invention will hereinafter appear.

My invention includes a support provided with separating means for the different articles, so that the hooks, the eyes and the loops will be separately carried by different portions or subdivisions of the support. The hooks are carried by that portion or subdivision of the support lying between the article-separating means, being hooked over the support.

My invention also includes having a support of such size relatively to the dimensions of the hooks to be supported, that the hooks will be retained thereon by their engagement with the support, more particularly with reference to hooks having humps or reduced throats and adapted to be retained on the wire by reason of such humps or reduced throats and to be sprung off the support as desired for use. The eyes and loops are respectively strung upon opposite end portions of the support outward from the article-separating means.

My invention also includes means for preventing the escape of the eyes and loops, and such retaining means may be the backwardly bent projecting ends of the support bent into article-retaining relation, such as each into resilient contact with itself or with some other portion of the support so that the eyes and loops are securely and removably held.

My invention also includes other features of construction and combinations of parts, as will appear from the following description.

I shall now describe the mounts illustrated in the accompanying drawings and embodying my invention and shall thereafter point out my invention in claims.

Figure 1 is a face view of a mount filled with hooks, eyes and loops. Fig. 2 is an enlarged vertical section on a plane indicated by the line 2—2 of Fig. 1, as viewed from the right, and containing one hook only. Fig. 3 is a face view of a modified mount filled with hooks, eyes and loops. Fig. 4 shows the wire support of Fig. 3 removed from its card and containing only one each of the three articles mounted thereon. Fig. 5 is an enlarged vertical section on a plane indicated by the line 5—5 of Fig. 4, as viewed from the right. Fig. 6 is an enlarged section on a plane indicated by the line 6—6 of Fig. 4, as viewed in the direction indicated by the arrows. Fig. 7 is a similar section on a plane indicated by the line 7—7 of Fig. 4. Fig. 8 is a similar section on a plane indicated by the line 8—8 of Fig. 4.

The mount illustrated in Figs. 1 and 2 of the drawings includes a wire support bent to the general shape of a horse-shoe. This wire support is subdivided into three principal portions, namely, a median hook-carrying portion 9 and two substantially similar end portions, one of which is an eye-carrying portion 10 and the other of which is a loop-carrying portion 11. The hook-carrying portion 9 is separated at its ends from the eye-carrying and loop-carrying portions 10 and 11, so that the hooks, the eyes and the loops are prevented from intermingling. Such separating means for the different articles are shown as right and left closed coils 12 and 13, each coil comprising one turn. Hooks 14 are mounted on the hook-carrying portion 9, eyes 15 upon the eye-carrying portion 10, and loops 16 upon the loop-carrying portion 11. The eyes 15 are separated from the hooks 14 by the right closed coil 12, and the loops 16 are in like manner separated from the eyes 14 by the left closed coil 13. The article-separating coils 12 and 13 are of small diameter so that the stiffness of the wire effectively main-

tains the article-separating relation of the different parts of a coil.

The hooks 14 are hooked over the hook-carrying portion of the support, between the separating coils 12 and 13. The usual construction of hook has a hump or projection reducing the size of the throat thereof to prevent unhooking when in use, and this is taken advantage of to provide a means for securely holding the hooks in place upon my support, while permitting them to be readily sprung off or detached by an intentional act of the user, the diameter of the support wire being properly related to the size of the hook for the effective performance of this retaining and disengagement permitting function.

The middle or hook-carrying portion 9 of the horseshoe shaped support wire is curved to substantially a semicircle, and this curved shape is of particular advantage in supporting the hooks 14 in hooked-on relation, by reason of the fact that the curvature provides outwardly additional room for the enlarged shanks of the hooks, thereby increasing the hook-carrying capacity of the hook-carrying portion 9.

The eyes 15 are strung over the end of the eye-carrying portion 10, and the loops 16 are similarly mounted on the loop-carrying portion 11. As the eyes 15 will lie flatly against one another (Fig. 1) and the same is true of the loops 16, there is no occasion to curve the eye-carrying portion 10 and the loop-carrying portion 11, and these portions are shown as substantially straight outwardly from the respective separating coils 12 and 13. By reason of the straight eye-carrying and loop-carrying portions and the curved hook-carrying portion, compactness of mounting is obtained; and by reason of the horse-shoe shape of the support, hooks, eyes and loops are all rendered easily accessible for removal.

The means for retaining the eyes 15 and loops 16 upon the support are shown as backwardly bent substantially **S**-shaped end portions 17, 18, which, beyond the eyes 15 and loops 16, are bent into article-retaining relation, respectively, with the eye-carrying and loop-carrying portions 10, 11, being shown (see Fig. 2, more particularly showing the loop-retaining means) as respectively in contact with the eye-carrying and loop-carrying portions at the front of such portions. The resiliency of the curved terminal portions 17, 18, permits the ready removal of the eyes and loops for use merely by drawing them over the ends of the support wire, these terminal portions yielding away from and then springing back to their article-retaining positions.

For increased convenience in packing and in vending the wire article-support is mounted on a card 19. The support wire may be secured on the card 19 by attaching means engaging such card and engaging the support wire at the coils 12 and 13, and for this purpose a small and flexible attaching wire 20 extends along the back of the card 19 and has its ends passed through the card 19 at the inside of the coils 12, 13 and bent down upon the face of the card 19 inwardly from such coils. In use the card 19 is to be detached from the support wire to give freer access to the hooks, eyes and loops. This is readily accomplished by unbending the ends of the attaching wire 20.

The slightly modified construction illustrated in Figs. 3 to 8, inclusive, varies from the construction just described in that to provide means for holding the eyes 15 and loops 16 in place, the straight article-carrying portions 21, 22, are bent to form straight reversely-extending article-retaining arms 23, 24 which come into resilient contact with, and therefore into article-retaining relation with article-separating coils 25, 26, at the outer and rear sides of such coils (see Fig. 8). The closed coils 25, 26, have contacting portions (Figs. 6 and 7) effectively separating the eyes 15 and loops 16 from the hooks 14 which are hooked over a curved hook-carrying portion 27, similar to the hook-carrying portion 11 in the first described construction and upon which the hooks are similarly retained (see Fig. 5).

The modified support wire is attached to a card 28, the attachment being effected by passing the resilient article-retaining arms 23, 24 through holes adjacent to the upper edge of the card 28 so that these arms will lie at the back of the card, as shown in broken lines in Fig. 3.

In the use of each form of the mount, the card (upon which directions and other information may be printed) is first removed from the wire article-support and then the hooks, eyes and loops may be removed one at a time as needed.

It is obvious that various modifications may be made in the constructions shown in the drawings and above particularly described within the principle and scope of my invention.

I claim:

1. A hook and eye and loop mount consisting of a support divided by separating means into three article supporting parts, the middle part being adapted to receive and detachably retain the hooks by their reduced throats but to permit the hooks to be intentionally sprung off therefrom, one end part being adapted to receive the eyes and the other end part being adapted to receive the loops, means being provided on these end parts to prevent accidental and permit intentional removal of the eyes and loops.

2. A hook and eye and loop mount comprising a wire support provided with coils for separating the three articles, the hooks being hooked over the middle portion of the support wire so that they may be unhooked therefrom and the eyes being strung upon one end portion of the support wire and the loops being strung upon the other end portion of the support wire, means being provided to prevent the loss of the eyes and the loops.

3. A hook and eye and loop mount comprising a support wire in the general shape of a horse-shoe and at two points intermediate of its ends having coils with contacting portions for separating the three articles, the hooks being hooked over the portion of the support wire between the coils and adapted to be unhooked from the support wire, and the eyes being strung upon the support wire at one of the portions beyond the coils, and the loops being strung thereon at the other portion beyond the coils, each of such eye-carrying and loop-carrying portions having a part in article-retaining relation with another part of the support wire to permit removal and to prevent loss of the eyes and loops.

4. A hook and eye and loop mount comprising a wire support provided with coils for separating the three articles, the hooks being hooked over the middle portion of the support wire so that they may be unhooked therefrom and the eyes being strung upon one end portion of the support wire and the loops being strung upon the other end portion of the support wire, means being provided to prevent the loss of the eyes and the loops, a card upon which the support is mounted, and means engaging the support coils and the card to attach the support to the card.

5. A hook and eye and loop mount comprising a support wire in the general shape of a horse-shoe and at two points intermediate of its ends having coils with contacting portions for separating the three articles, the hooks being hooked over the portion of the support wire between the coils and adapted to be unhooked from the support wire, and the eyes being strung upon the support wire at one of the portions beyond the coils, and the loops being strung thereon at the other portion beyond the coils, each of such eye-carrying and loop-carrying portions having a part in article-retaining relation with itself beyond the supported articles to prevent the loss of the articles but permit their intentional removal, a card upon which the support is mounted, and means engaging the support coils and the card to attach the support to the card.

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

HARRY CLINTON GOODRICH.

Witnesses:

WM. ASHLEY KELLY,

VICTOR D. BORST.