

No. 676,824.

Patented June 18, 1901.

T. DE Q. RICHARDSON.
HOOK AND EYE PACKAGE.

(Application filed Jan. 22, 1901.)

(No Model.)

FIG. 1.

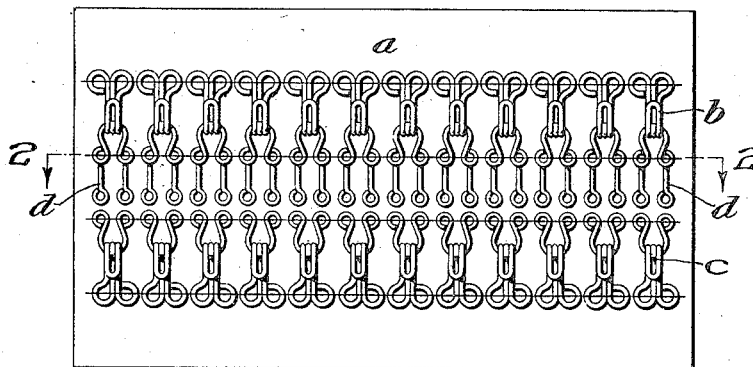
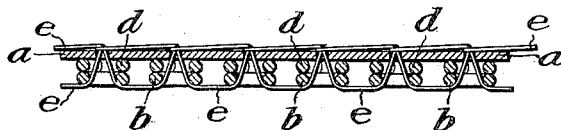


FIG. 2.



Thomas De Q. Richardson

WITNESSES:

Arthur E. Paige,
J. Norman Dixon.

INVENTOR:

By his attorney
J. C. Stanfield,

UNITED STATES PATENT OFFICE.

THOMAS DE Q. RICHARDSON, OF PHILADELPHIA, PENNSYLVANIA.

HOOK-AND-EYE PACKAGE.

SPECIFICATION forming part of Letters Patent No. 676,824, dated June 18, 1901.

Application filed January 22, 1901. Serial No. 44,262. (No model.)

To all whom it may concern:

Be it known that I, THOMAS DE Q. RICHARDSON, a citizen of the United States, residing in the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Hook-and-Eye Packages, of which the following is a specification.

Two well known types of eyes have heretofore been used alternately in connection with the hooks employed as fastenings for garments, the eyes of one of the said types consisting each of a piece of wire bent to the form of an approximately U-shaped loop the side members of which terminate at their free extremities in thread engaging bends, and which eyes are hereinafter termed loop eyes, and the eyes of the other type consisting each of an approximately straight bar or body of wire, the respective ends of which are equipped with thread engaging bends, and which are known to the trade and public as invisible eyes.

Hooks and eyes have heretofore, for transportation and convenience of handling, and sale, been mounted by sets,—each set usually consisting of a hook and a loop eye engaged therewith,—upon carriers, usually consisting of panels or cards of paste board, the sets being arranged upon the face of the card in parallel rows, and secured thereto by stitching with thread, or otherwise.

Inasmuch as for some purposes one type of eyes, and for another purpose the other type of eyes, are employed by the purchaser of the hooks, and as it is ordinarily impossible for the purchaser of a quantity of hooks to know in advance on what garments or parts thereof all the hooks purchased will be employed, or to determine how many of each kind of eyes will be required, it has been proposed to furnish with each of the packages of hooks and eyes, and consisting of a card and sets of hooks and loop eyes mounted thereon, a number of invisible eyes for use when desired in connection with the hooks in lieu of the loop eyes, so that the purchaser of hooks will receive not only loop eyes, but also a number of the invisible eyes.

The difficulty in so supplying the invisible eyes to the purchaser resides in mounting

them upon the same card which contains the hooks and loop eyes, without increasing the size of the cards, or the cost thereof, or of the boxes in which they are packed, and in such manner, moreover, that they shall be readily removable from the card by the purchaser.

The loop eyes and the hooks lend themselves very readily to the mounting arrangement heretofore referred to, inasmuch as in such mounting each hook and each eye is engaged through its two thread engaging bends to the card or carrier, and the respective members of each set by their mutual engagement mutually furnish each other an additional means of attachment to the card, and it is desirable to retain this arrangement and mounting.

It is desirable, although not in all cases essential furthermore, that the arrangement referred to by which the sets of hooks and eyes are arranged in straight rows upon the card shall be adhered to, not only because the public have become accustomed to receiving the packages in such form, but also because special machines have been arranged and constructed for the application of the hooks and eyes in the particular mounting referred to, and any change in the application of such hooks and eyes to the cards would involve great expense in the alteration of existing or provision of new machinery.

My invention aims to provide hook and eye packages especially but not restrictively of the character hereinbefore set forth, that is to say, in which hooks and loop eyes are by sets attached to the cards in parallel rows, which shall, without extension of the card area, or material readjustment of the means by which such hooks and loop-eyes are mounted upon and attached to the card,—be provided with and carry the required number of invisible eyes, which, obviously, may or may not equal the number of loop eyes upon the card.

In its broader aspect, my invention comprehends the application to the face of a card, upon which are mounted and secured hooks and loop eyes, of a series of what are termed “invisible eyes,” said invisible eyes being secured to the card by the same means, preferably thread stitches, by which the first mentioned devices are attached thereto, whereby

a compact and convenient package is formed; space is economized; one and the same sewing operation which secures the hooks or loop eyes to the card is also effective to secure the invisible eyes to the card; the complete article furnishes to the user a series of hooks and an assortment of loop eyes and invisible eyes to be used with said hooks as required. I prefer to secure the hooks and eyes by thread to the card by passing thread through the card and through the thread engaging bends of the hooks and eyes; it is manifest, however, that the engagement of the thread with the hooks or eyes by passing directly through the thread engaging bends of the same is not essential.

In the accompanying drawing, I have illustrated in Figure 1 in top plan view, and in Figure 2 in sectional elevation on the dotted line 2-2 of Figure 1, a package of hooks and eyes, the arrangement represented,—which is, however, subject to variation in practice,—being that to which I prefer to resort.

In the accompanying drawing, *a* indicates the card or carrier upon which the hooks and eyes are mounted, which cards are of such size as the convenience of the manufacturer or the usage of trade may require.

Upon the face of the card are mounted two rows *b c* of sets of hooks and eyes, said rows being arranged in parallelism in the usual manner and secured to the card in the usual manner by rows of stitches extending along and passing through the thread engaging bends at the respective edges of each row of sets of hooks and eyes, which stitches may, of course, be of any usual or preferred character.

d are the invisible eyes, and in the preferred arrangement of my invention I arrange them in the space intermediate of the two rows of sets of hooks and loop eyes, and each with one thread engaging bend underlying the thread engaging bend of the adjacent member of one of the rows of sets of hooks and loop eyes, so that said thread engaging bends of said invisible eyes are caught in and secured by the thread loops or stitches by which the thread engaging bends of a set of hooks and loop eyes are secured.

As a result of this specific arrangement, it will be seen that the operation of securing the invisible eyes upon the face of the card is one with the operation of securing the ordinary hooks and loop eyes upon the card, whereby economy of time and labor in the formation of the package is secured.

In the manufacture of this specific embodiment of my invention it is, of course, immaterial whether the thread engaging bends of the invisible eyes are over or under the thread engaging bends of the adjacent members of the set of engaged hooks and loop eyes.

It is, furthermore, unimportant whether or not the thread engaging bends of the invisible eyes are in exact coincidence with thread engaging bends of the adjacent set of hooks and loop eyes, the fact being that in practice

the outermost or uppermost thread engaging bends will tend to slip laterally or lengthwise of the thread loop which holds them upon the card and somewhat out of registry with the underlying thread engaging bends.

Any preferred and suitable form of stitches may be employed to secure the thread engaging bends of the sets of hooks and loop eyes, and the thread engaging bends of the invisible eyes, to the card, and the operation may, of course, be performed by hand or by machine.

When, however, as in the illustrated and preferred embodiment of my invention, the thread engaging bends of the invisible eyes and the thread engaging bends of an adjacent row of hooks or of loop eyes overlap and are secured to the card by one and the same set of stitches, I prefer to perform the operation by a machine capable of engaging the thread *e* with the card and said overlapped thread engaging bends in what is known as the Singer loop stitch.

Having thus described my invention, I claim—

1. A commercial package of hooks and eyes comprising a carrier card and a row of hooks and loop eyes, two rows of thread stitching which secure said hooks and eyes to the card, and a series of invisible eyes secured to the card by one of said rows of thread stitching, substantially as set forth.

2. A commercial package of hooks and eyes comprising a carrier card, a plurality of independent rows of sets of hooks and eyes, the sets in each row presenting their thread engaging bends at the respective edges of the row, and a series of invisible eyes, terminal thread engaging bends of said invisible eyes registering with the thread engaging bends of members of one of the first mentioned rows, terminal thread engaging bends of said invisible eyes being secured to the card by means common to them and to the thread engaging bends of one of the rows first referred to substantially as set forth.

3. A commercial package of hooks and eyes comprising a carrier card, a plurality of independent rows of united or engaged sets of hooks and eyes, the sets in each row presenting their thread engaging bends at the respective edges of the row, a series of invisible eyes, terminal thread engaging bends of said invisible eyes being secured to the card by a thread common to them and to thread engaging bends first referred to, substantially as set forth.

4. A commercial package of hooks and eyes comprising a carrier card, a plurality of independent rows of united or engaged sets of hooks and eyes, the sets in each row presenting their thread engaging bends at the respective edges of the row, a series of invisible eyes disposed in the space between said rows, terminal thread engaging bends of said invisible eyes registering with thread engaging bends of one of the rows first referred to, and

terminal thread engaging bends of said invisible eyes being secured to the card by means common to them and to the thread engaging bends of one of the rows first referred
5 to substantially as set forth.

5. A commercial package of hooks and eyes comprising a plurality of independent rows of united or engaged sets of hooks and eyes, the sets in each row presenting their thread engaging bends at the respective edges of the
10 row, and a series of invisible eyes disposed in the space between said rows, terminal thread

engaging bends of said invisible eyes being secured to the card by a thread common to them and to the thread engaging bends of one
15 of the rows first referred to, substantially as set forth.

In testimony that I claim the foregoing as my invention I have hereunto signed my name this 15th day of January, A. D. 1901. 20

THOMAS DE Q. RICHARDSON.

In presence of—

BRADBURY BEDELL,
SAMUEL J. TAYLOR.