

(No Model.)

M. O. REHFUSS.  
HOOK AND EYE.

No. 561,437.

Patented June 2, 1896.

FIG. 1.

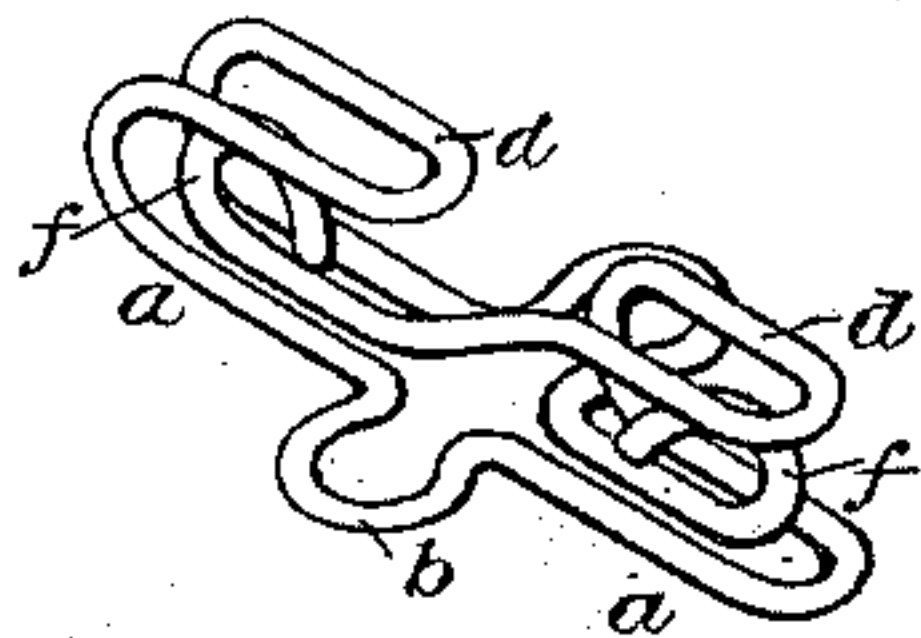


FIG. 3.

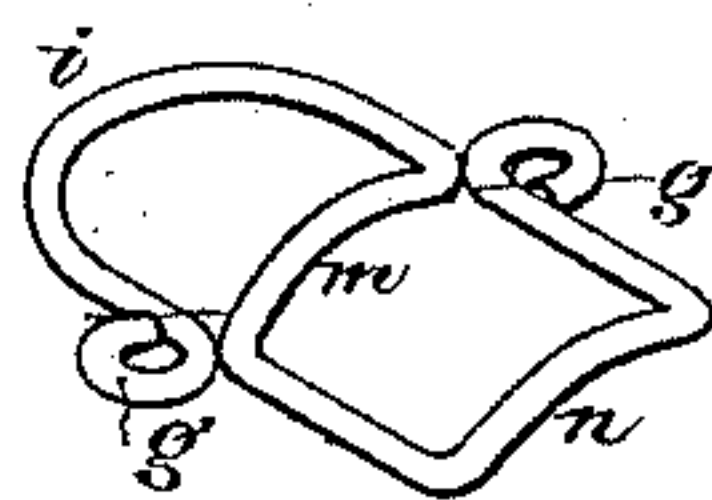


FIG. 2.

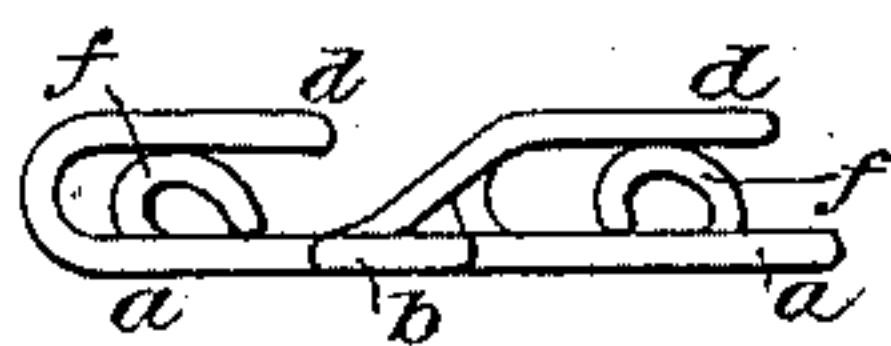


FIG. 4.

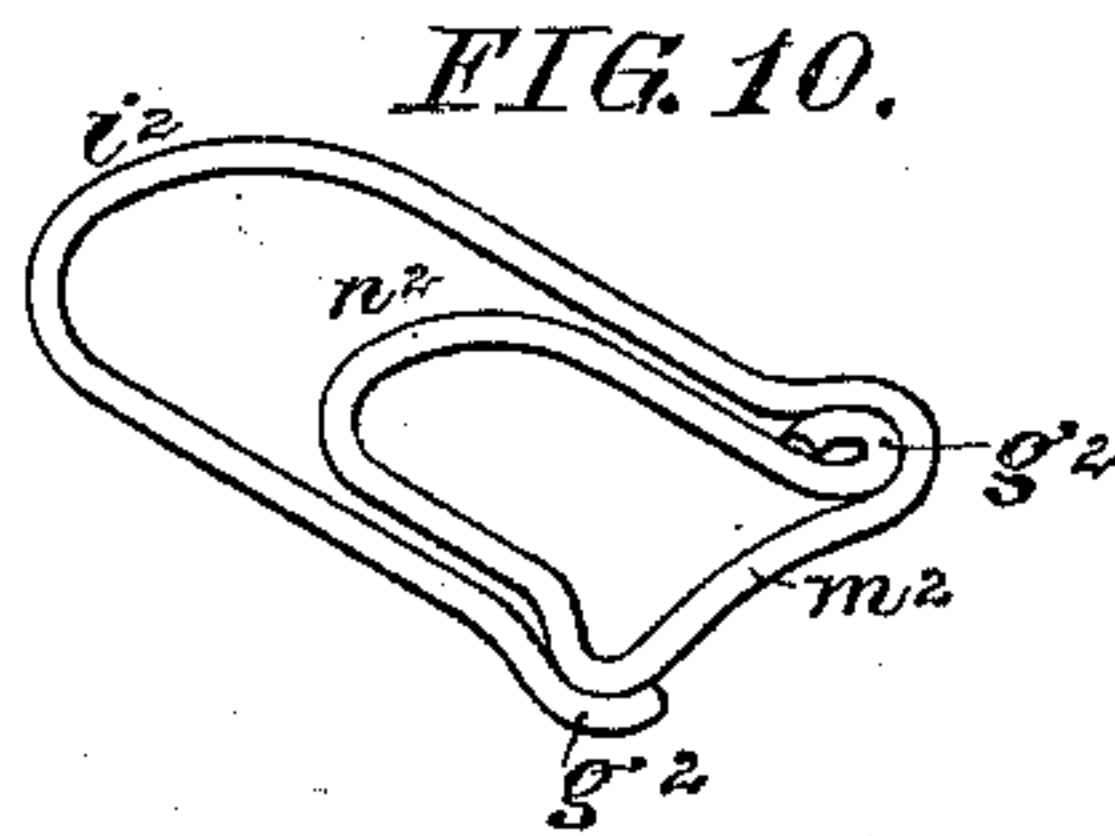
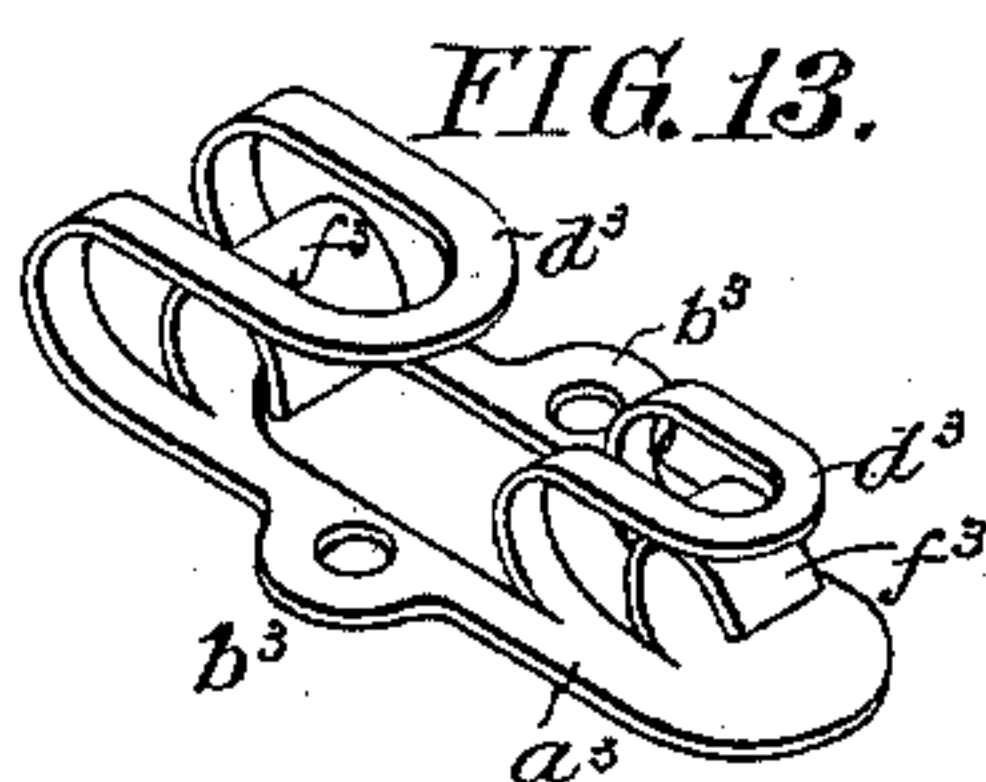
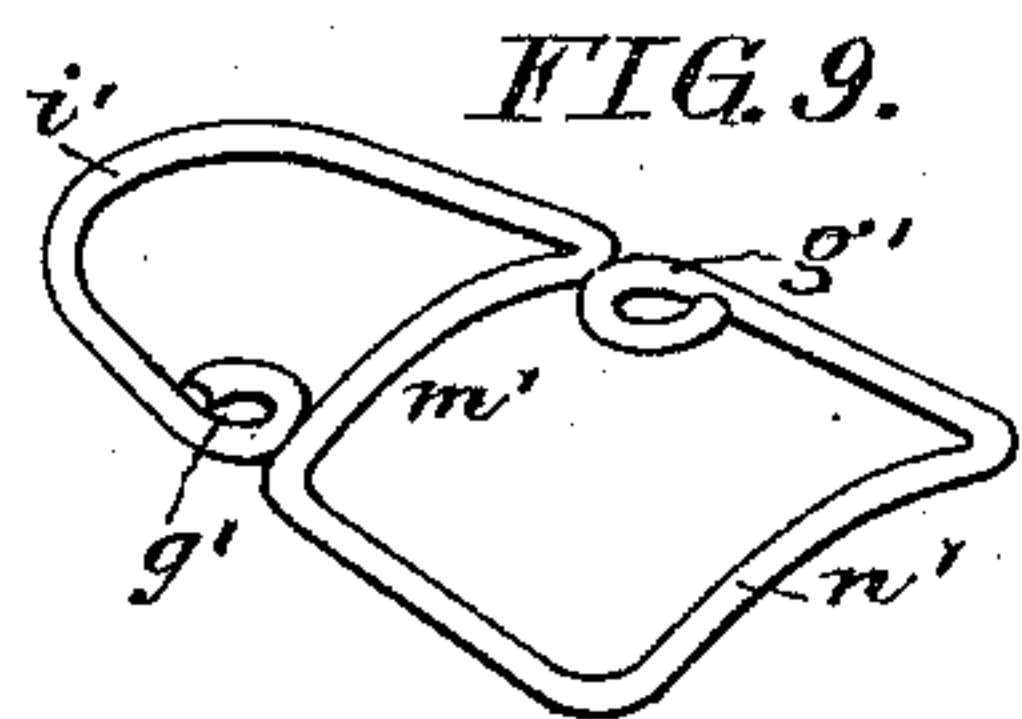
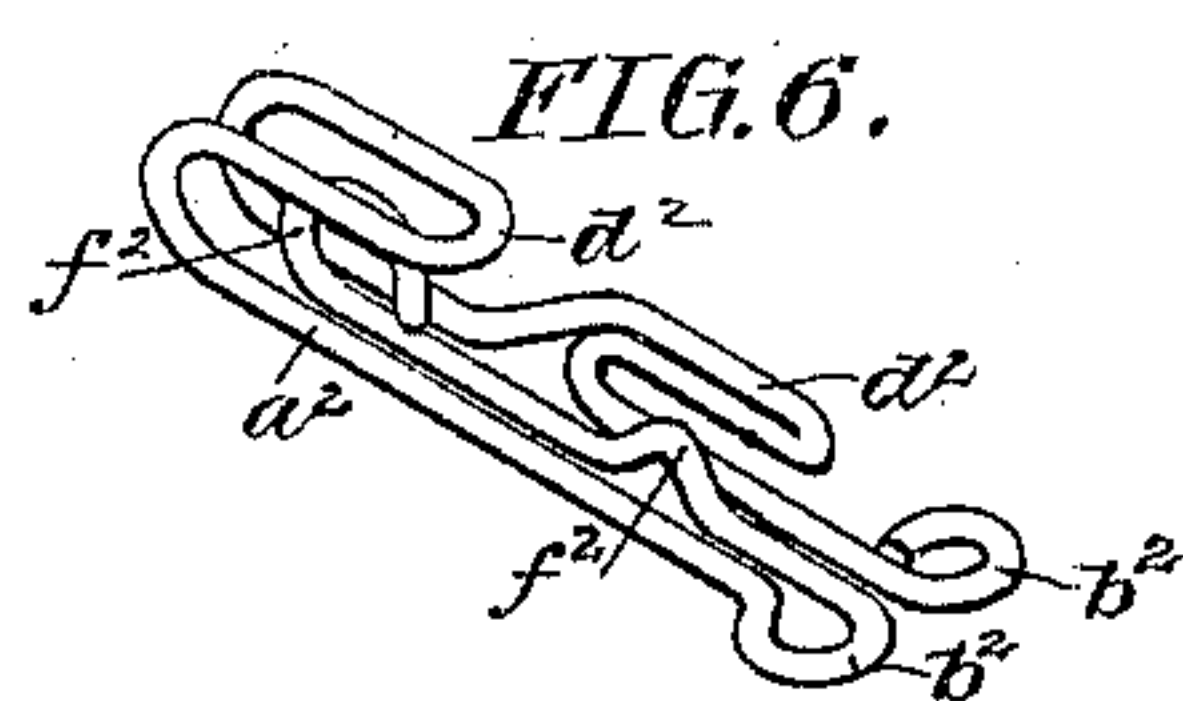
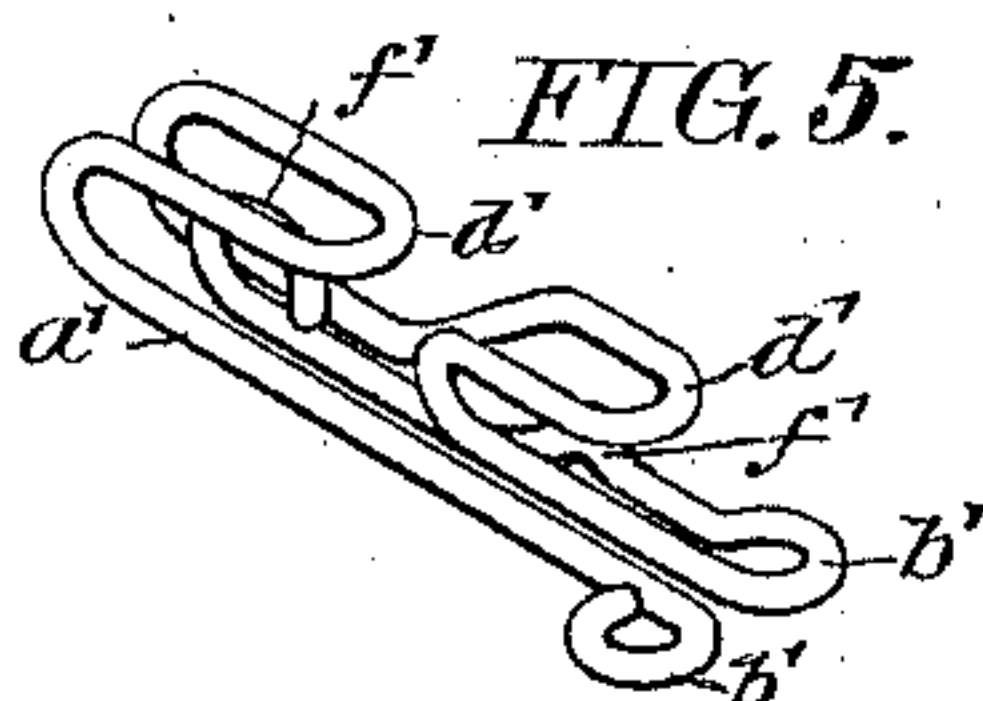


FIG. 11.

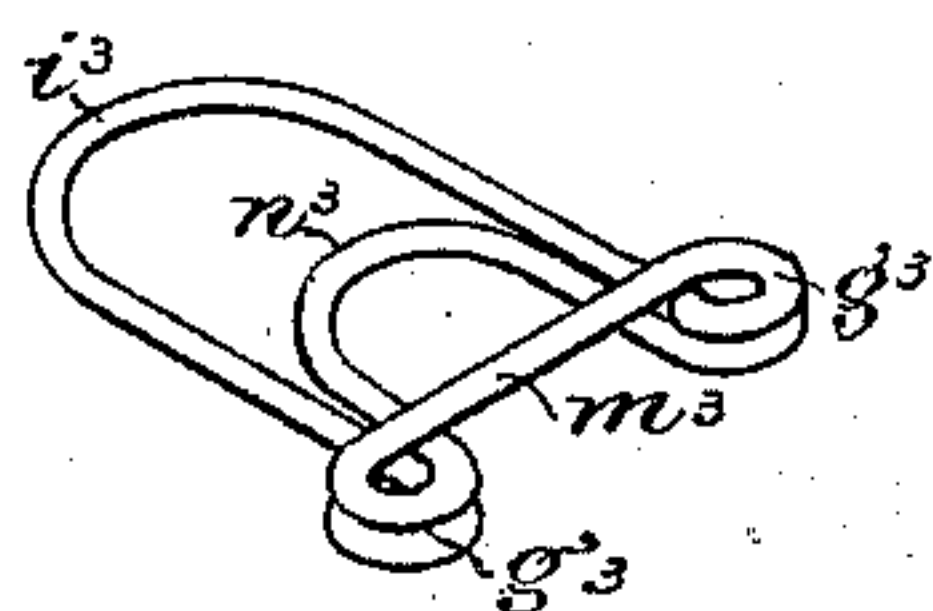
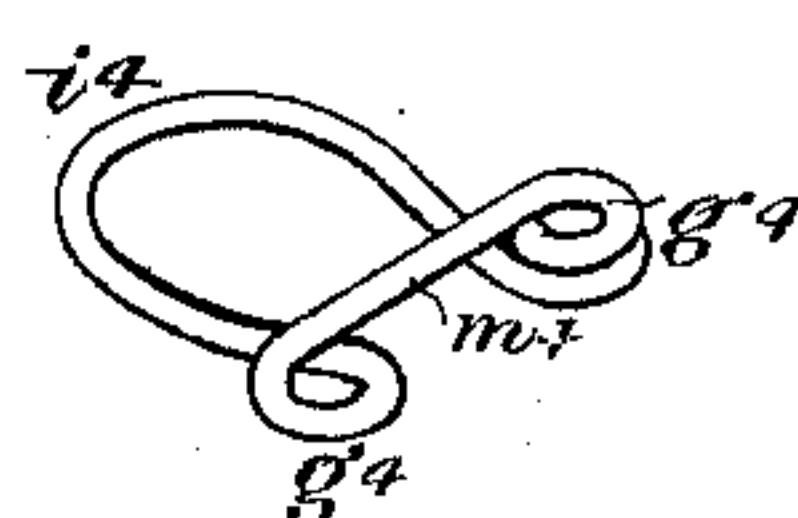


FIG. 12.



Witnesses:  
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J. C. Benner

Inventor:  
Martin O. Rehfuss  
by his Attorneys  
Howson & Howson



# UNITED STATES PATENT OFFICE.

MARTIN O. REHFUSS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
MARTIN J. MYERS, OF SAME PLACE.

## HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 561,437, dated June 2, 1896.

Application filed March 29, 1895. Serial No. 543,685. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN O. REHFUSS, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain  
5 Improvements in Hooks and Eyes, of which the following is a specification.

One object of my invention is to so construct a multiple hook or eye that the same can be readily fashioned from a single piece  
10 of wire or sheet metal, a further object being to dispose the fastening portions of the hook or eye most advantageously in respect to the engaging portions of the same, and a still further object being to obstruct the mouth of  
15 each bill of the duplex hook, so as to prevent the ready release of the eye therefrom when the two are engaged. These objects I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in  
20 which—

Figure 1 is a perspective view of a duplex hook constructed in accordance with my invention. Fig. 2 is a side view of the same. Fig. 3 is a perspective view of a multiple eye  
25 constructed in accordance with my invention. Fig. 4 is a side view of the same. Figs. 5 and 6 are perspective views of other forms of duplex hook embodying the main features of my invention. Figs. 7 and 8 are side views,  
30 respectively, of the duplex hook shown in Figs. 5 and 6. Figs. 9, 10, 11, and 12 are perspective views of modified forms of multiple eye made in accordance with my invention, and Fig. 13 is a perspective view of a duplex  
35 hook made of sheet metal instead of wire.

The duplex hook shown in Fig. 1 consists of a back portion *a a*, with opposite laterally-projecting loops or eyes *b b*, located about the center of the same and serving as the means  
40 whereby the hook is attached to the garment. These attaching portions also occupy a position between the bills *d d* of the hook, one of these bills being at one end of the hook and the other at the opposite end of the same, and  
45 the mouth of each bill is obstructed by a spring-tongue *f*, so that when an eye engages with either bill of the hook the ready release of said eye from the hook will be prevented. The duplex hook is, as shown in Fig. 1, formed  
50 from a single piece of wire, one termination

of which constitutes one of the spring-tongues *f*, the other termination constituting the opposite spring-tongue.

The multiple eye shown in Figs. 3 and 4 comprises opposite attaching portions or loops  
55 *g* and three engaging portions or loops *i*, *m*, and *n*, the engaging portion *m* consisting of a bar extending across from one attaching-loop *g* to the other, while the engaging portions *i* and *n* are about at an equal distance  
60 in opposite directions from said central bar.

The loops *i*, *m*, and *n* are slightly bowed, so as to facilitate engagement of the hook therewith, but in no case is the single wire of which the eye is composed doubled or caused to overlap. Hence the eye will lie closely through-  
65 out its entire extent upon the surface of the garment to which it is attached.

The purpose of the multiple hook or eye is to provide a number of independent points  
70 of connection extending in the same direction, so as to permit a certain amount of adjustment of the garment not permitted by the ordinary single hook or eye.

By forming the attaching loops or bends at  
75 the center of the hook or eye neither of the engaging portions is very remote from the point of attachment, and hence has no undue freedom of movement; but this feature, while preferable, is not absolutely necessary to my  
80 invention. For instance, in the modified form of hook shown in Fig. 5 the main departure from the hook shown in Fig. 1 is the location of the attaching bends or loops *b'* at one end of the hook instead of in the center  
85 of the same, this change being accompanied by a change in the course taken by the wire in forming the hook.

In Figs. 6 and 8 is illustrated a still further modification in the construction of the du-  
90 plex hook, the main difference between this construction and that shown in Figs. 5 and 7 being in the laying of the wires for the inner bill *d'* one above the other instead of side by side. Fig. 13 shows a duplex hook of the  
95 character shown in Fig. 1, but fashioned from sheet metal instead of wire.

The modified form of eye shown in Fig. 9 differs from that shown in Fig. 3 mainly in the location of the attaching-loops *g'*, while  
100



the modified form of eye shown in Fig. 10 has the attaching-loops at the end of the structure instead of in the center, each of said attaching-loops, moreover, consisting of  
5 a double run of wire, the two runs being laid side by side, so that the eye presents but a single thickness of wire in order to lie snugly against the face of the garment. While this is a preferable feature of my invention, how-  
10 ever, it is not absolutely necessary in every case. For instance, in Fig. 11 I have shown a form of eye substantially similar to that shown in Fig. 10, but having the attaching-loops  $g^3$  formed by runs of wire which overlap  
15 each other instead of lying side by side, and in Fig. 12 I have shown a form of eye having but two engaging portions  $i^4$  and  $m^4$  instead of three, the runs of wire crossing each other in forming one of the attaching-loops  $g^4$  and  
20 lying one on top of the other in forming the opposite attaching-loop.

A multiple eye having attaching loops or bends, one or more engaging portions beyond the same and another engaging portion  
25 formed by a loop extending across from one attaching portion to the other, forms the subject of a separate application filed by me on the 17th day of October, 1895, and hence I

lay no claim to such multiple eye in this application.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. A multiple hook or eye having centrally-located attaching loops or bends, an engaging portion projecting longitudinally beyond  
35 said attaching portions in one direction, and another engaging portion projecting longitudinally beyond said attaching portions in the other direction, the points of connection extending in the same direction, substantially  
40 as specified.

2. A duplex hook consisting of a body having attaching loops or bends, two eye-engaging bills located one in advance of the other,  
45 and a spring-finger located in the mouth of each bill, the whole being formed from a single piece of metal, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of  
50 two subscribing witnesses.

MARTIN O. REHFUSS.

Witnesses:

JOSEPH H. KLEIN,  
FRANK E. BECHTOLD.