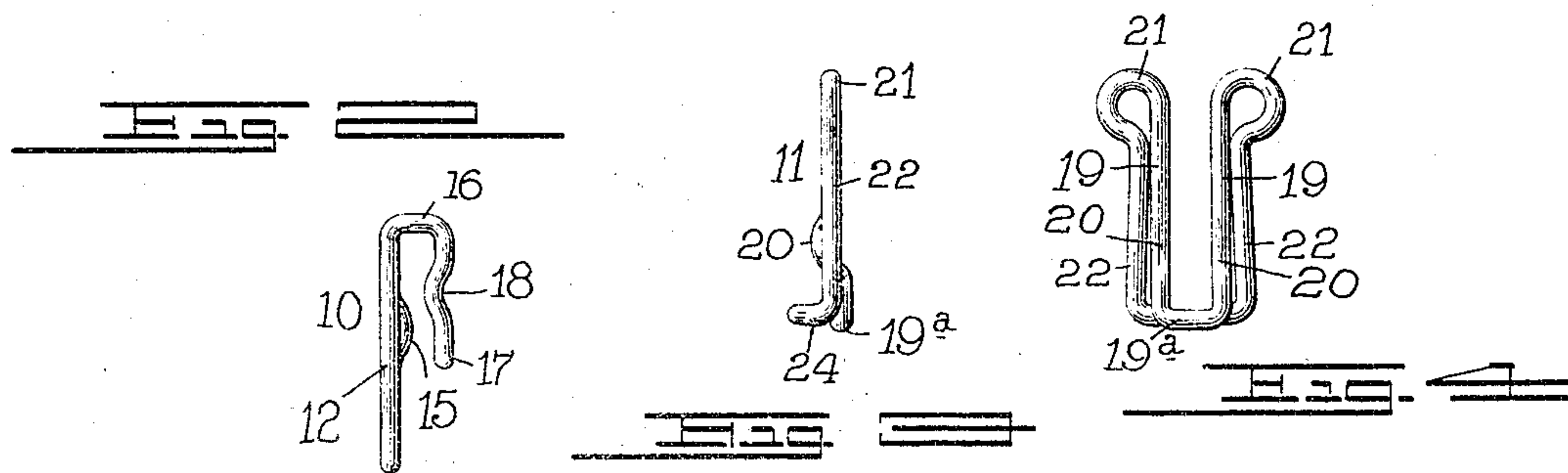
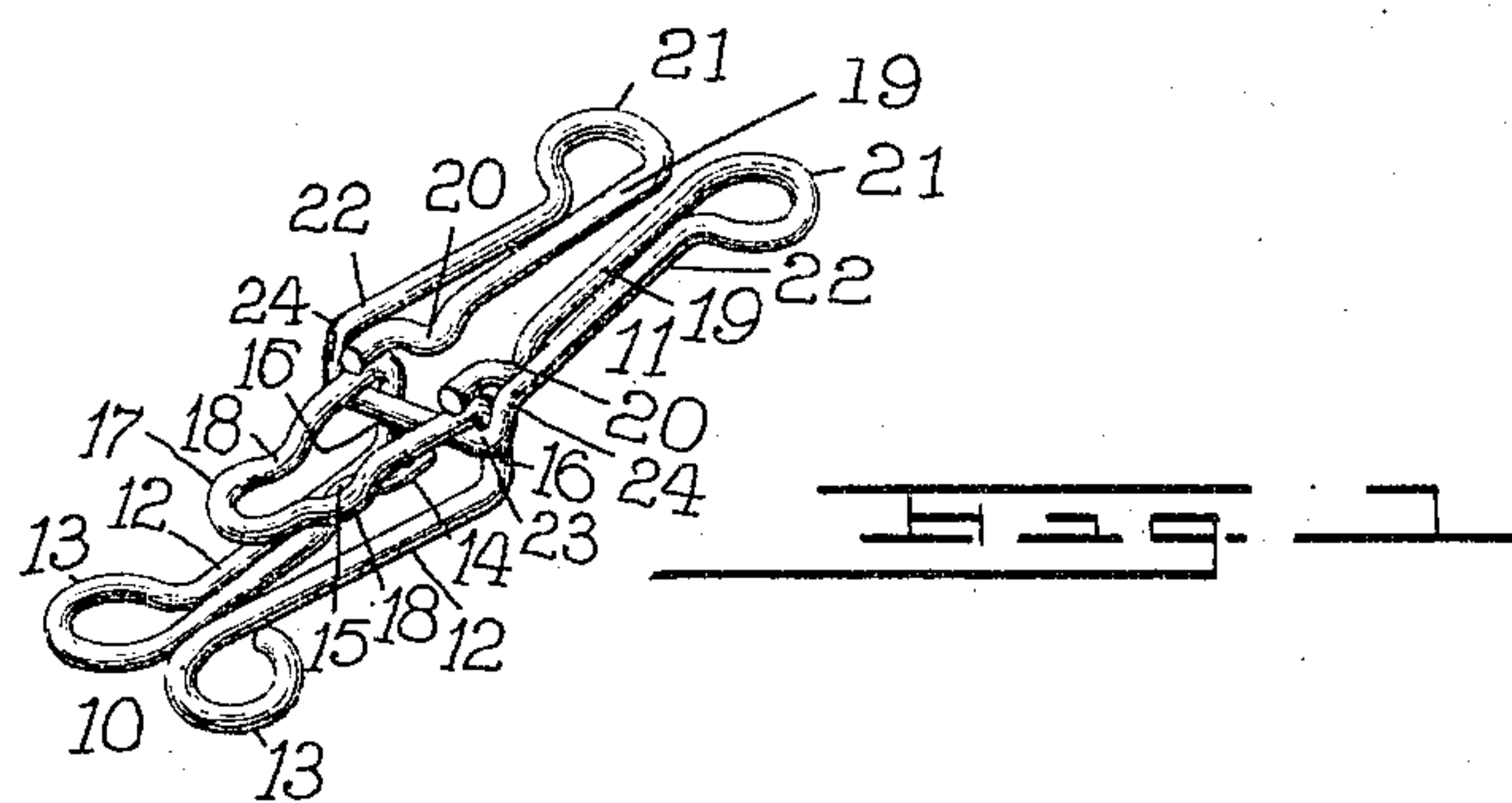


No. 784,294.

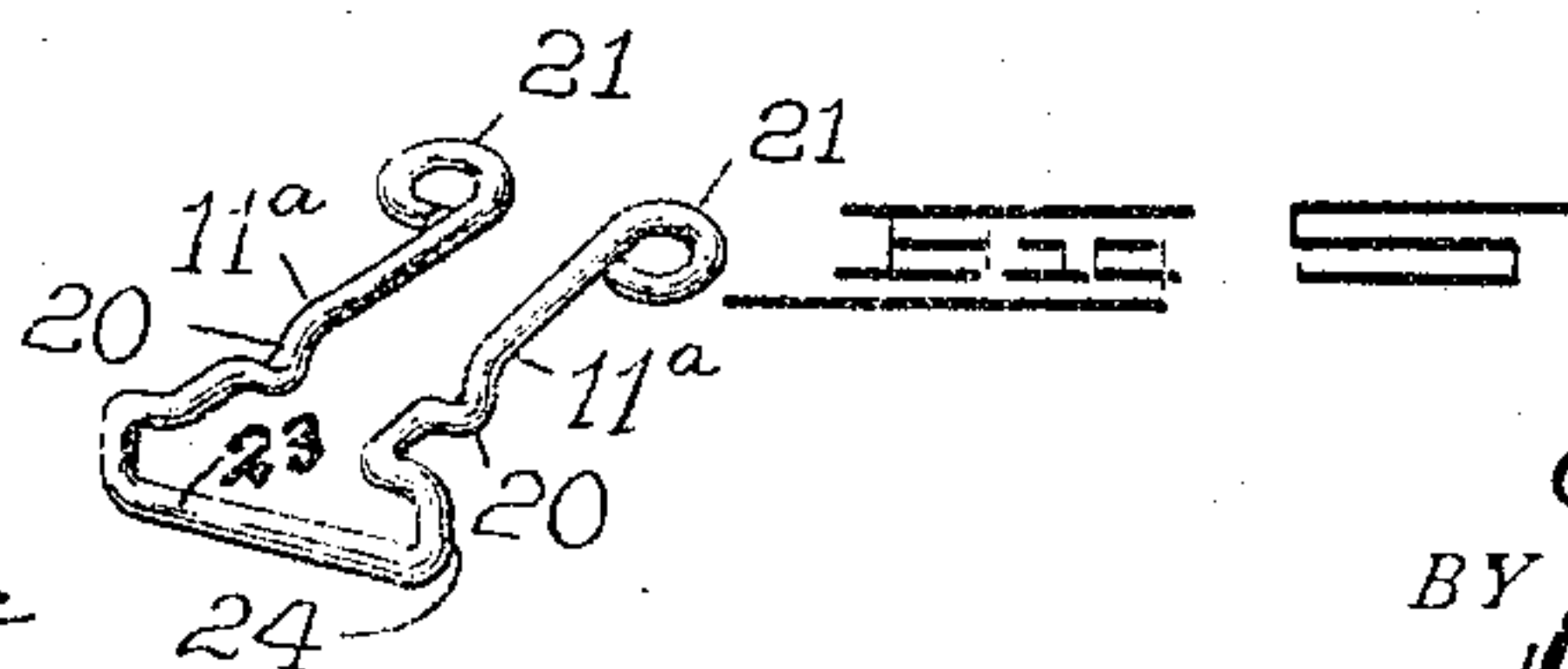
PATENTED MAR. 7, 1905.

E. E. BARUCH.
HOOK AND EYE.
APPLICATION FILED MAY 17, 1904.



WITNESSES:

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EMILE E. BARUCH, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
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HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 784,294, dated March 7, 1905.

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To all whom it may concern:

Be it known that I, EMILE E. BARUCH, of the city, county, and State of New York, have invented a new and Improved Hook and Eye, of which the following is a full, clear, and exact description.

My invention relates to improvements in hooks and eyes such as are used on the meeting parts of garments and similar things; and the object of my invention is to produce a hook and eye of this character which can be cheaply made from wire and which is constructed in such a way that the parts can be easily united, but are not likely to accidentally separate. I obtain this result by producing certain humps or bosses and shoulders on the hook, and particularly by shaping the eye so that the certain humps or bosses thereon shall engage the end portions of the hook and prevent the hook from being accidentally pushed out of the eye.

My invention is also intended to improve the eye, as indicated, and, further, to provide means for securely fastening the eye to a garment or other article to which it is applied.

To these ends my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the united hook and eye embodying my invention. Fig. 2 is a side elevation of the hook. Fig. 3 is a side elevation of a modified form of the eye. Fig. 4 is a plan or top view of the eye shown in Fig. 3, and Fig. 5 is a detail perspective view of another modified form of eye.

In carrying out my invention I employ a hook 10 and an eye 11. The hook has the same general characteristics as the ordinary hump-hook, but with a slight improvement; and it comprises the side members 12, which at one end merge into the thread-eyes 13, and it has a middle member 14, on which the well-known hump 15 is produced. The side members 12 are doubled upon themselves, as shown

at 16, and I prefer to double the members twice, as shown in Fig. 2, so as to produce a good opening at this point, and the doubled portions of the said members are returned on themselves to form the hook proper or tongue 17, and the two sides of this are provided with inward bends or humps 18, which are produced nearer the ends of the main hook 10 than is the hump 15 and which, in connection with the hump 15, serve to prevent any accidental releasing of the hook. It will be seen that by bending the hook at the part 16, as shown, shoulders are produced at the base of the tongue 17, which aline with humps on the eye, to be hereinafter referred to.

My main improvements lie in the eye 11. This has the two middle members 19, the inner ends of which are coincident with the end of the eye, and these ends can be left open, as in Fig. 1; but they are preferably connected, as at 19^a in Figs. 3 and 4, as this cross connection provides a convenient means for fastening the thread and secures the eye in a much better manner than if the thread-eyes 21, presently referred to, were alone relied on. The members 19 have inward or downward bends or humps, as at 20, and these are in line with the side members of the hook 10, where they are bent, as at 16, to form the shoulders at the base of the tongue 17, and so they prevent any backward longitudinal movement of the hook in relation to the eye.

The members 19 merge at the outer end in the thread-eyes 21, and these in turn merge into the side members 22, which at their forward ends are bent downward, as at 24, and connected, as at 23, this part 23 forming the engaging portion of the eye, which by reason of its being bent downward causes the eye to readily engage the hook. When the parts are so engaged, it will be seen that the humps 15 and 18 serve to engage the part 23 and prevent displacement of the hook and eye, while this object is further and chiefly attained by means of the humps 20, which engage the parts 16 of the members of the hook.

Where the eye is formed as in Figs. 3 and 4, the thread for securing it can be passed through the thread-eyes 21 and also over the

tie-bar or end 19^a, and so the eye is very firmly fastened, and at the same time the engaging part or bail 23 projects from the goods in such a way as to conveniently engage the hook.

In Fig. 5 I have shown an eye having the thread-engaging parts 21 and the hook-engaging part 24, but with only one set of side members 11^a, which have the bends or humps 20 produced therein just as they are made in the members 19 and for the same reason—to wit, to prevent the disengagement of the eye and hook. This form of eye is not quite so desirable as that shown in Figs. 3 and 4; but it will be seen that it answers the purpose.

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

1. The herein-described eye, comprising side members merging at one end into thread-eyes and connected at the other end by a bail, said bail being bent downward at essentially right angles to the side members, and middle

members extending forward from the thread-eyes and inside and generally parallel with the side members, the said middle members having bends or humps bent downward from the general plane of the eye.

2. The combination with the hook having abrupt bends forming shoulders at the base of the tongue, of the eye having suitable fastening means, a depending bail to engage the tongue, and depending bends or humps arranged to aline with the shoulders at the base of the tongue on the hook.

3. The herein-described eye comprising middle members having inner bends or humps, the said members being connected at their front ends, side members connected at the rear end of the eye to the middle members by thread-eyes, and a hook-engaging bail connecting the front ends of the side members.

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Witnesses:

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