K. EGUCHI.

HOOK.

APPLICATION FILED MAR. 28, 1912.

1,065,791.

Patented June 24, 1913.

FIG. 1.

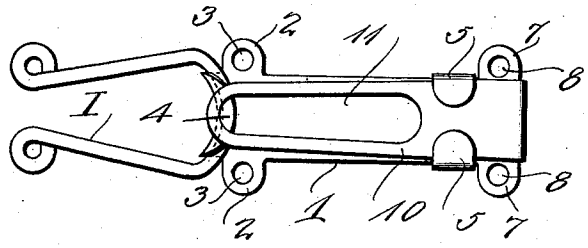


FIG. 2.

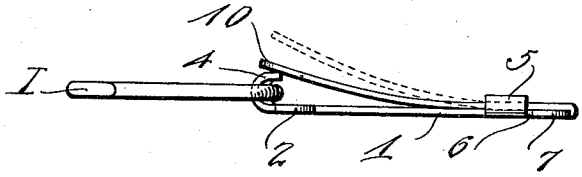
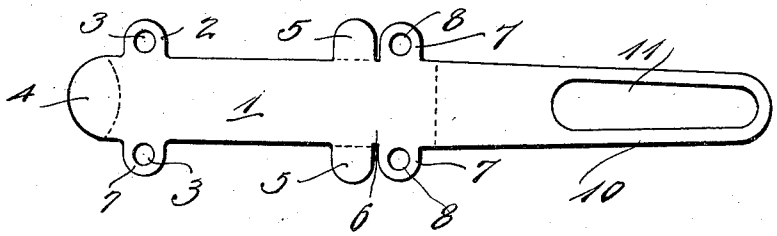


FIG. 3.



Witnesses

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HOOK.

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To all whom it may concern:

Be it known that I, KIYOMI EGUCHI, a subject of the Empire of Japan, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Hooks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to hooks and eyes, and more especially to the hooks thereof; and the object of the same is to produce an improved hook which is made of strip metal and whose bill has a protecting tongue which facilitates the entry of the eye and prevents garments from catching on the bill. This object is accomplished by constructing the hook as hereinafter more fully described and claimed, and as shown in the drawings wherein—

Figure 1 is a plan view and Fig. 2 a side elevation of this improved hook, showing the eye engaged therein. Fig. 3 is a plan view of the blank from which the hook is made, the dotted lines indicating where the bends occur.

In the drawings the blank shown in Fig. 3 is stamped from a piece of strip metal of proper thickness and pliability, and proportioned according to the size of the finished article. Specifically it comprises a base 1 which is flat and plain, a pair of oppositely projecting ears 2 near the front end of the base which are pierced with eyes 3 for a purpose to appear below, a portion projecting forward of these ears as at 4 and which enventually forms the bill of the hook as seen in Figs. 1 and 2, and a pair of oppositely projecting ears 5 at the rear end of the base. Next beyond the last-named ears occurs a neck 6, in rear of which are two other oppositely disposed ears 7 pierced with eyes 8 for a purpose also to appear. The upper portion or guard of this improved hook consists of an integral continuation of the rear end of the base to the right of the dotted line in Fig. 3, the body 10 of the guard by preference being stamped with a loop 11 for sake of lightness, and its length from the dotted line to its extremity being about the same as or a trifle less than the length of the base portion of the blank before any bending is done. As above suggested, the materials and proportions of parts are not essential. In forming this blank into the hook best seen in Figs. 1 and 2, the same is bent on the dotted line so that the body 10 overlies the base 1, the projection 4 being first bent up into the bill of the hook as indicated, and I prefer that the bill be not very pronounced because if it is it requires that the eye member I (for whose construction no claim of novelty is made herein) shall be passed far into the hook member before it drops over the tip of the bill, and this I seek to avoid. After the body 10 is bent over onto the base member 1 so that its tip overlies the bill 4, the two ears 5 are bent upward and hooked over the edges of the body and clenched down onto the upper face thereof as shown at 15, thereby holding the body at this point very firmly upon and in contact with the base and yet permitting it for the major portion of its length to spring upward as shown in dotted lines. The eyes 3 and 8 are now useful for sewing this improved hook to the garment in a manner which will be clear without the necessity for further illustration.

As shown the yielding tongue or guard 10 is rigidly held in contact by ears 5 which are located adjacent to perforated ears 7 and therefore the said tongue is yielding from the lugs 5 along its entire length and normally held in contact with the bill forming the eye receiving end of the base 1, thereby forming a strong and durable construction at the overlapping and contiguous end of the device. In the construction of the hook member it is essential that the ears 5 be located adjacent to the perforated ears 7 whereby that end of the hook member will be increased in strength at the connecting portion of the yielding tongue 10 to the base 1, and thus form a practicable and durable construction.

In use, the hook and the eye members are sewed to opposite edges of a garment which is to be fastened, and when they are to be engaged, the eye is passed under the tip of the guard 10 which is thereby lifted off of the tip of the bill 4, and the eye is dropped over the latter and pulled into the hook— the guard following the hook and resting on the tip of the bill to prevent this garment or any other from catching in the hook. If the latter be given a transverse curvature as indicated, the eye may rock around it slightly as the garment yields under the movements of the wearer. To disengage the

eye from the hook, it is only necessary to draw it back into the latter sufficiently to clear the tip of the bill, then raise it upward so as to lift the guard off the bill, and move it outward.

What is claimed as new is:

A hook constructed from a single strip of metal and having oppositely disposed outwardly projecting pierced ears arranged at one end and also at its central portion, said strip being also provided with oppositely disposed lugs adjacent to the central ears and spaced therefrom, a bill folded over one end of the strip in curved form to provide an engaging seat, said strip being folded over one portion of its length so as to have its terminal fold resting on the bill and said lugs being bent over said folded portion so as to clamp the same in contact with the unfolded portion of the strip whereby to give the end of the folded portion spring action in connection with the bill.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

KIYOMI EGUCHI.

Witnesses:
C. W. MELODY,
A. COONEY.

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