No. 611,400. Patented Sept. 27, 1898.

S. M. WENGER.

FISH HOOK.

(Application filed Apr. 8, 1898.)

(No Model.)

Fig. 1.

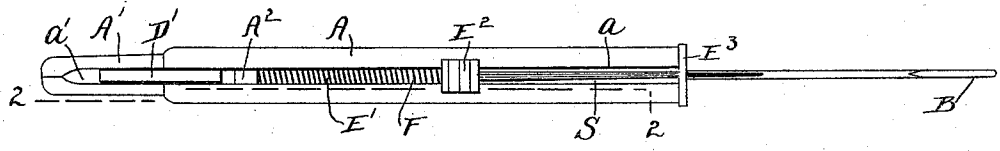
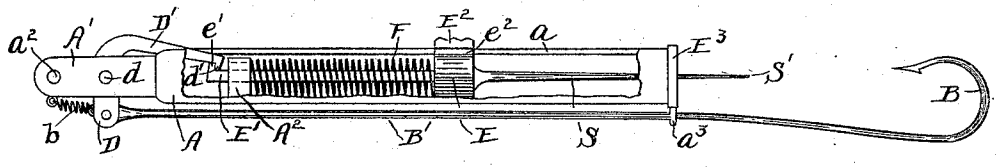


Fig. 2.



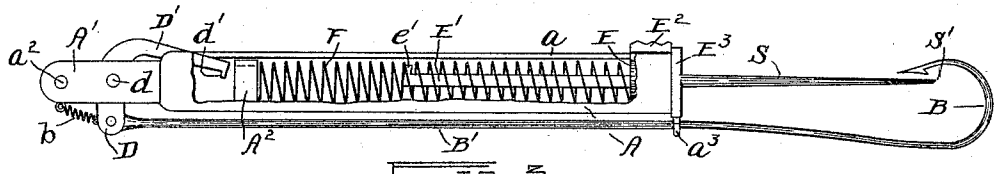


Fig. 3.

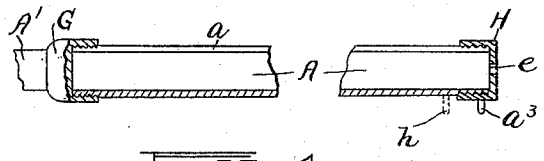


Fig. 4.

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SAMUEL M. WENGER, OF FARMERSVILLE, PENNSYLVANIA.

FISH-HOOK.

SPECIFICATION forming part of Letters Patent No. 611,400, dated September 27, 1898.

Application filed April 8, 1898. Serial No. 676,856. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL M. WENGER, a citizen of the United States, residing at Farmersville, county of Lancaster, State of Pennsylvania, have invented certain Improvements in Fish-Hooks, of which the following is a specification.

My invention relates to improvements in that class of fish-hooks having means for securing a fish thereto; and the object of my improvements is to prevent a fish from freeing itself from a hook after it has taken hold of the same.

My invention consists in the construction and combination of the various parts, as hereinafter fully described and then pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a front view of a device embodying the principles of my invention, showing the spear in a retracted position; Fig. 2, a longitudinal section on broken line 2 2, Fig. 1; Fig. 3, a similar section, but showing the spear thrust out; and Fig. 4, a longitudinal section of the ends of the case, showing a modified construction thereof.

Similar letters indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates a hollow case having a slot *a* through its wall and longitudinally of its upper side, and A′ is the stem of the case, provided with a slot *a*′, extending entirely through the same and located in line with slot *a*. In the outer end of stem A′ is a hole A^2, through which the fish-line is attached.

B is the fish-hook, located outside of the end of case A opposite stem A′, and B′ is the shank of said hook, extending back through an eye a^3 on the front end of the lower side of case A. Shank B′ has its free end pivoted to arm D of trigger D D′, said arm passing through slot *a*′ of stem A′, wherein it is pivoted, as shown at *d*. Arm D′ of the trigger is bent at somewhat of an acute angle with arm D, and extends downward through slot *a* of case A, having on its free end a lip *d*′, normally held in said case by a coiled spring *b*, secured to the outer end of arm D of the trigger and the outer end of stem A′ of the case.

E is an annular head located in and adapted to be moved longitudinally of the bore of case A. From the front face of head E projects a spear S, which passes through an opening *e* in the end of case A, adjacent to fish-hook B. When said spear is in the position occupied thereby when thrust out from case A, the point S′ thereof is located inside of and close to the point of fish-hook B, which point it laps, as shown in Fig. 3.

On the inner face of head E is an inwardly-extending stem E′, having on its free end a shoulder *e*′, adapted to be engaged by lip *d*′ of trigger D D′, and around stem E′ is coiled a spring F, one end whereof bears against head E and the other against a ring or annular lip A^2 on the inner surface of case A, as shown in Figs. 1, 2, and 3. As the spear is drawn back into its retracted position stem E′ passes through the opening in ring A^2.

Transversely of the periphery of spear-head E is a rib e^2, which extends outward through slot *a*, and on the outer edge thereof is formed a flat handhold E^2, corrugated on its outer face, whereby spear-head E is forced inward against the pressure of spring F.

In operating, the parts being in the positions shown in Figs. 1 and 2, the slightest pull of a fish taking hold of hook B disengages the trigger from stem E′ of spear-head E, permitting spring F to drive the spear into the fish having hold of the hook, thereby preventing the fish from freeing itself without tearing the hook and the spear through all the matter engaged by them.

In the first three figures the stem A′ is shown as formed with case A, and the closing-plate E^3 is permanently attached thereto. Fig. 4, however, shows a modified and, it is thought, a more convenient construction, in which stem A′ is attached to a cap G, adapted to be screwed upon and close an open end of case A. The other end of said case is similarly closed by a cap H, screwed thereon and having secured to it the eye a^3, or said eye may be attached to the body of the case, as shown by broken lines *h*, Fig. 4.

I do not limit myself to any particular construction of fish-hook, case, or spear. Neither do I restrict myself to the particular construction and arrangement of the parts connecting the same herein shown and described, as

it is obvious that many changes may be made therein without departing from the principle and scope of my invention.

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

1. The combination, with a tubular case having a slot therein, of a spear in said case and adapted to move longitudinally thereof, a spring having one end pressing against the spear from behind and the other end pressing against a stationary bearing, a trigger pivoted to the stem of the case and having an arm thereof adapted to engage the slot in the case, a fish-hook having its shank passing through an eye on said case and pivoted to an arm of the trigger, and a lip on the arm of the trigger adapted to engage the slot in the case and constructed to take over a shoulder on the spear, for the purpose specified.

2. The combination, with a tubular case having a slot in one side thereof and a centrally-located opening in its front end, of the stem of the case, having a slot therein ranging with the slot in said case, a spear passing through the opening in the front of the case, a head on the spear and located in the case, a handhold projecting outside of the case and connected with said head by a rib passing through the slot in the case, a rearwardly-extending stem on said head and having a shoulder thereon, a spring coiled around the stem of the spear and having one end pressing against said head and the other end against a stationary bearing located back of said head, a trigger pivoted in the slot in the stem of the case and having a lip on one arm thereof, adapted to engage the shoulder on the stem of the spear, a fish-hook in front of the case, and a stem on the fish-hook and passing through an eye on said case and pivotally connected with the other arm of the trigger, substantially as and for the purpose specified.

3. The combination, with a hollow case having a slot therein, of a cap screwed onto the rear end of the hollow case and having a stem thereon, a cap screwed onto the front end of said case and having an opening therein, a trigger pivoted to the stem of the case and having one arm provided with a lip, a fish-hook located in front of said case, a stem on the hook, passing through an eye on the case and pivoted to the other arm of the trigger, a spring-actuated spear in the hollow case, the spear passing through the opening in the front cap of the case and being adapted to be thrust toward the fish-hook, a shoulder on the spear and adapted to be engaged by the lip on the trigger, and means for retracting the spear, for the purpose specified.

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