S. F. HENDERSON.

FISH SPEAR.

APPLICATION FILED MAY 7, 1914.

1,171,432. Patented Feb. 15, 1916.

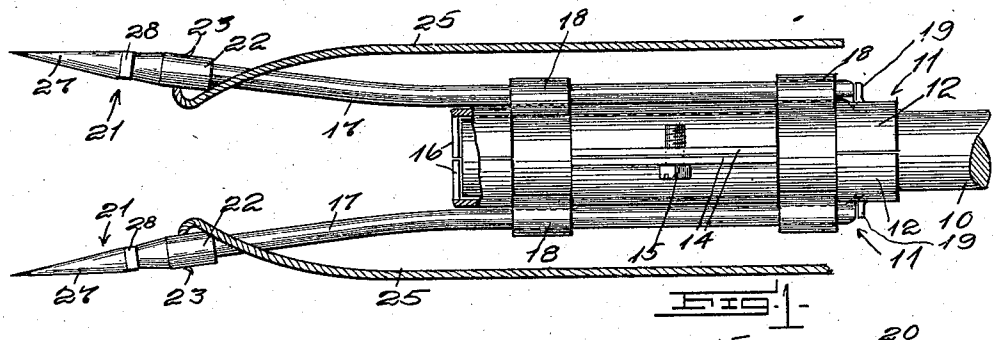


Fig. 1.

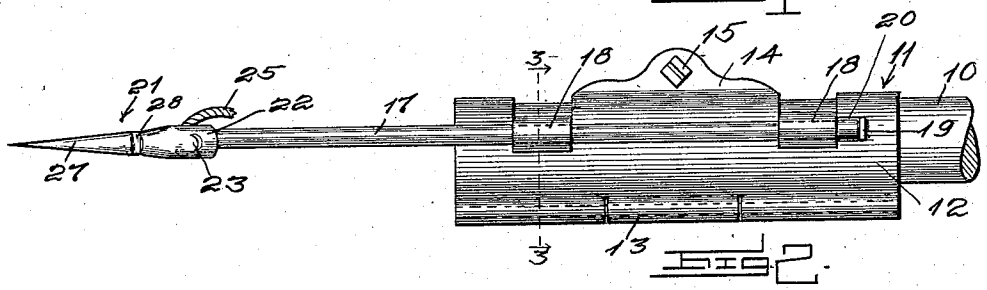


Fig. 2.

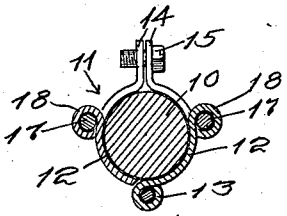


Fig. 3.

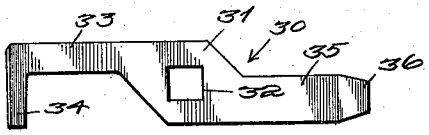


Fig. 6.

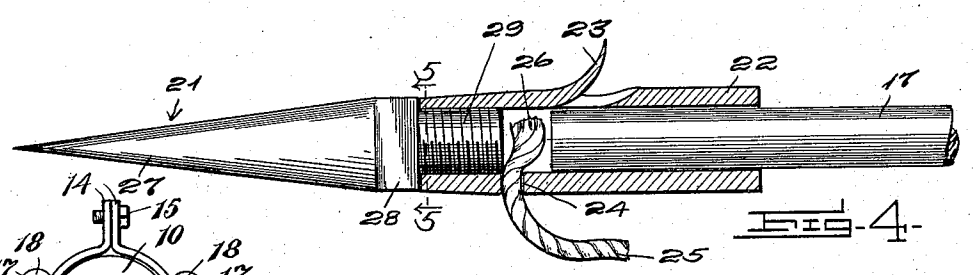


Fig. 4.

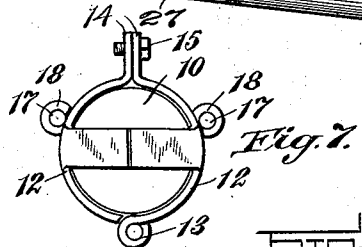


Fig. 7.

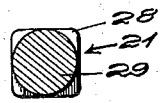


Fig. 5.

Witnesses

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FISH-SPEAR.

1,171,432. Specification of Letters Patent. Patented Feb. 15, 1916.

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To all whom it may concern:

Be it known that I, SHELBY F. HENDERSON, a citizen of the United States, residing at Henderson, in the county of Shasta and State of California, have invented certain new and useful Improvements in Fish-Spears, of which the following is a specification.

My invention relates to improvements in apparatus for catching fish, such as salmon, by spearing the same.

An important object of the invention is to provide fish spearing apparatus, the penetrating element or elements of which embody a removable pointed element, whereby another one of these pointed elements may be substituted for the one in use in case the same should become broken or dull.

A further object of the invention is to provide novel and simple means to securely attach the fish penetrating element to the cord or cable employed in connection therewith.

A further object of the invention is to provide means of the above mentioned character, whereby the pointed element may be quickly and conveniently connected with and removed from the socket element embodied in the fish penetrating element.

A further object of the invention is to provide a novel and simple form of carrying-frame for the fish penetrating element or elements, which is formed of few parts and convenient in use.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same, Figure 1 is a plan view of apparatus embodying my invention, Fig. 2 is a side elevation of the same, Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 2, Fig. 4 is an enlarged side elevation of the fish penetrating element, a portion thereof being shown in section, Fig. 5 is a transverse sectional view taken on line 5—5 of Fig. 4, and Fig. 6 is a side elevation of a wrench adapted for use in connection with the apparatus.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 designates a pole, handle, or staff, of suitable length, the inner end of which is held by the operator.

The numeral 11 designates a clamping frame as a whole, to be rigidly and removably mounted upon the outer end of the pole 10. This clamping frame embodies twin side members or plates 12, hinged together at adjacent edges, as shown at 13. The opposite adjacent edges of these side members are provided with lateral extensions 14, one of which is apertured for receiving a clamping screw 15, having screw-threaded engagement within an aperture of the other extension. The outer end of the clamping frame is closed by inwardly extending flaps 16, formed by bending the end portions of the material of the side members 12, such flaps being arranged to engage with the outer end of the pole 10, whereby the clamping frame is positively prevented from moving inwardly longitudinally of the pole.

The numeral 17 designates longitudinally extending arms or rods, disposed exteriorly of and upon opposite sides of the clamping frame 11, and which are bent slightly longitudinally to diverge toward their outer ends. Each of these rods or arms are held within sockets 18 formed by stamping the same out of the material of the side member 12, and bending such material into the form of a ring, as more clearly shown in Fig. 3. These sockets preferably have suitable clamping engagement with the rods or arms 17 to hold them against longitudinal displacement with relation to the clamping frame. Adjacent the inner ends of the rods or arms 17, the side members 12 are provided with laterally extending stops 19, stamped from the material of the same. It is thus seen that means are provided to positively prevent the rods or arms 17 from moving longitudinally inwardly with relation to the side members, should these rods or arms be struck against a stone or the like during the operation of the apparatus.

The numeral 21 designates the fish spearing elements, as a whole. Each of these fish spearing elements, as more clearly shown in Fig. 4, comprises a tubular body portion 22, open at both ends, and adapted to be removably carried by the outer end of the rod or arm 17. The tubular body portion 22 is provided with a laterally extending curved tang 23, preventing the penetrating element

from coming out of the fish when being forced into the same. Upon its opposite side, the tubular body portion 22 is provided with a laterally extending opening 24, receiving one end of a cord or cable 25, the free end 26 of which extends into the tubular body portion 22, as shown.

The numeral 27 designates a pointed element, embodying a portion or base 28, preferably formed square in cross-section, as shown in Fig. 5. From this base projects an axially extending screw-threaded shank 29, adapted for engagement with the inner screw-threads formed upon the outer end of the tubular body portion 22. By this construction, the pointed element 27 is detachable or removably connected with the tubular body portion, and the shank 29 is adapted to have clamping engagement with the inner end 26 of the cord or cable 25 to securely hold the same within the tubular body portion. A particular advantage is gained in having the pointed element 27 separable from the tubular body portion, to wit, the fact that another similar pointed element may be substituted for the one in use when the latter becomes too dull or is accidentally broken. These pointed elements 27 are comparatively small and the fisherman may carry a suitable number of the same in his pocket or the like, to be connected with the tubular body portion 22, when necessary.

In Fig. 6, I have shown a compound tool adapted for use in the manipulation of the different parts of my apparatus. This tool may be designated as a whole by the numeral 30, the same having a body portion 31, provided with a square opening 32, adapted to receive the square portion or base 28 of the pointed element to turn the same in connecting and disconnecting the same with and from the tubular body portion 22. Extending in one direction from the body portion 31 is a shank 33 carrying a laterally extending finger 34, adapted to be used in inserting the cord or cable 25 into or through the opening 24. Extending in an opposite direction from the body portion 31 is a shank 35, provided with a tapered end 36, adapted to engage with the clamping screw or bolt 15, to act as a screw-driver.

In the use of the apparatus, the fish penetrating elements 21 are removably mounted upon the outer ends of the rods or arms 17, the pole 10 being held in the hands of the operator and the cables 25 extending inwardly to be held by him as is obvious. The fish penetrating elements are forced into the fish by a quick longitudinal movement of the pole 10, the same penetrating the fish and remaining therein, whereby they are withdrawn from the rods or arms 17. The fish may then be drawn to shore and while the penetrating elements are being removed from the fish another set of the same may be arranged upon the rods or arms 17, thus avoiding any unnecessary delay.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having described my invention, I claim:—

1. In apparatus of the character described, a clamping casing formed in a plurality of hinged casing sections provided at their opposite corresponding edges with flaps, adjustable means connecting the flaps, a plurality of knuckles arranged longitudinally of each casing section, a stop element carried by each casing section rearwardly of one knuckle, and a spear carrying rod arranged within the knuckles of each casing section with its rear end engaging the stop.

2. In apparatus of the character described, a plurality of oppositely arranged casing sections, each casing section being provided at its forward end with an inwardly extending flap to contact with a handle, each casing section being provided with knuckles stamped therefrom and a stop element stamped therefrom and arranged rearwardly of the rear knuckle; means pivotally connecting corresponding longitudinal edges of the casing sections; adjustable means connecting the opposite corresponding edges of the casing sections; and spear carrying rods arranged in the knuckles and contacting with the stops.

In testimony whereof I affix my signature in presence of two witnesses.

SHELBY F. HENDERSON.

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