

(No Model.)

C. G. KEENAN.
LANDING NET FRAME.

No. 549,367.

Patented Nov. 5, 1895.

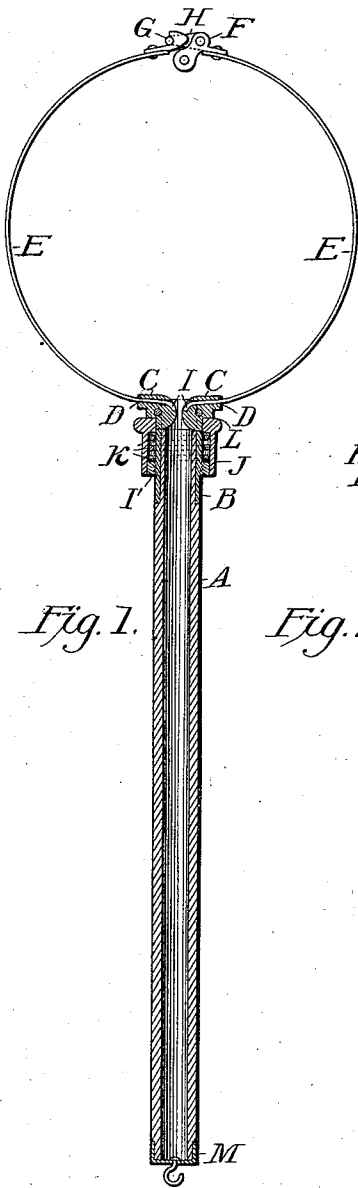


Fig. 1.

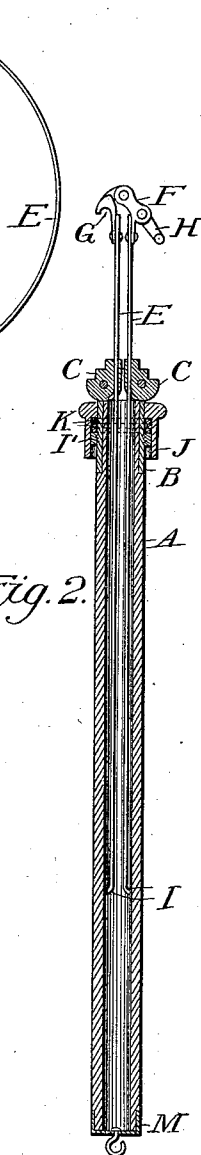


Fig. 2.

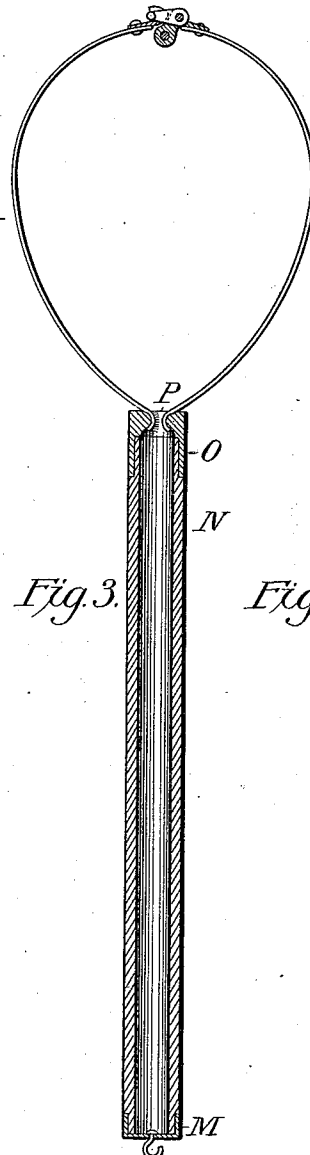


Fig. 3.

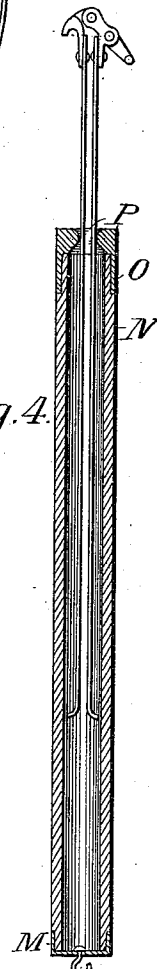


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

CHARLES G. KEENAN, OF ALLEGHENY, PENNSYLVANIA.

LANDING-NET FRAME.

SPECIFICATION forming part of Letters Patent No. 549,367, dated November 5, 1895.

Application filed May 31, 1894. Serial No. 513,087. (No model.)

To all whom it may concern:

Be it known that I, CHARLES G. KEENAN, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Landing-Net Frames of that class consisting of a long handle to one end of which is attached a hoop for supporting a bag-shaped net used in taking fish, insects, and other small animals, of which the following is a specification.

Many landing-net frames have been constructed with a non-collapsible hoop permanently secured to one end of a short pole or handle, some are provided with a detachable hoop, and others have the hoop collapsible. In contradistinction to these my invention comprises a landing-net frame consisting of tubular handle, to one end of which is inseparably attached two thin metallic strips hinged and connected together at their outer ends, which strips are adapted to slide without severance through the head of and into said handle, that serves as a cover or sheath, and when required for use said strips may be partially withdrawn from the handle, circularly expanded, and locked to retain the form of a hoop that may be either round or oviform.

The construction of my landing-net frame will be readily understood from the following description, taken in connection with the accompanying drawings, wherein—

Figure 1 represents a longitudinal transverse section of a landing-net frame which has a tubular handle combined with flexible strips withdrawn, expanded, and held in the form of a circular hoop; Fig. 2, a similar view of the same device with its hoop collapsed and thrust down into the tubular handle. Fig. 3 represents a tubular handle provided with an expanded oviform hoop. Fig. 4 shows the same with its hoop collapsed and inserted in its handle.

To make a landing-net frame embodying my invention, I provide a tubular handle A, having at one end a suitable ferrule B, in the outer portion of which are pivoted two knuckles C C, each a segment of an eccentric of like shape and size. Through each knuckle C is a slot or oblong hole D, in each of which is arranged a thin flexible metallic

strip E, adapted to slide freely therein. The outer ends of these flexible strips are permanently held together by means of a suitable hinge F, provided with a catch G and T-shaped lock-bar H. The inner end of each strip is bent to form a short hook I, which prevents said strip from being entirely withdrawn from their respective slots and separated from the handle.

I' is a band or collar screwed upon the outer end of the ferrule B, which and said band are properly threaded to admit of this. A broad collar J is mounted upon said band I' and is adapted to slide freely thereon. A spiral spring K is secured between the outer face of the band and the inner side of the movable collar, the collar J being re-bored a sufficient distance of its length to seat the spring therein. Said spring serves to constantly force the collar toward the aforesaid knuckles, which are provided with a shoulder L to stop the movement of said collar at a proper point when the strips are expanded into the form of a hoop, and assist in holding them in that form. The opposite end of said tubular handle is closed by means of a cap M, the several parts having been constructed, arranged, and combined as shown and described. Upon a release of the latch G at the outer portion of the hoop and a backward movement of the collar J to compress the spring K said hoop will collapse. The strips may then be easily pushed into the handle, where they are out of danger, making the device more safe and convenient and easy of transportation.

When the frame is required for use, the strips can be readily withdrawn from said handle, expanded into the form of a circular hoop, and retained in that form by the means and in the manner hereinbefore stated. A net may be attached to the hoop by rings in any way known to the art, and need not be disconnected.

Where a circular hoop is not required, the same may be made to assume an oviform. To this end I have constructed a frame. (Illustrated in the drawings, Figs. 3 and 4.) This frame consists of a tubular handle N, having at one end a plain ferrule O, which has an oblong hole P, that leads into the hollow of the handle, provided with flexible metallic

strips constructed and made to operate in the same manner and for the same purpose as those previously described.

5 Having thus stated the nature of my invention and its mechanical structure, I claim—

1. In a landing net frame, the combination of a tubular handle having a ferrule at one end thereof; knuckles pivoted at the outer end of said ferrule, and provided with slots 10 diverging when the apparatus is adjusted and parallel when the same is collapsed; two thin flexible strips, the inner ends of which are secured in the slots of said knuckles, and adapted to slide through the same within the 15 tubular handle; and a locking catch at the outer ends of said strips, substantially as described.

2. A landing net frame, consisting of a tubular handle, in combination with a fer-

rule which has suitable knuckles pivoted to 20 its outer end, a slot or hole through each knuckle—flexible strips adapted to slide through said holes into the handle and be partially drawn therefrom to form a hoop—a 25 hinge that connects the outer ends of said strips—a catch or keeper pivoted to said hinge—and a sliding collar around the ferrule to engage the knuckles when the flexible strips are drawn out and expanded into the 30 form of a hoop, whereby they are retained in that form—the whole forming one collapsible, telescopic implement; without detachable parts.

CHAS. G. KEENAN.

Witnesses:

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