(No Model.)

J. REED.

FOLDING HOOP FOR LANDING NETS.

No. 367,928. Patented Aug. 9, 1887.

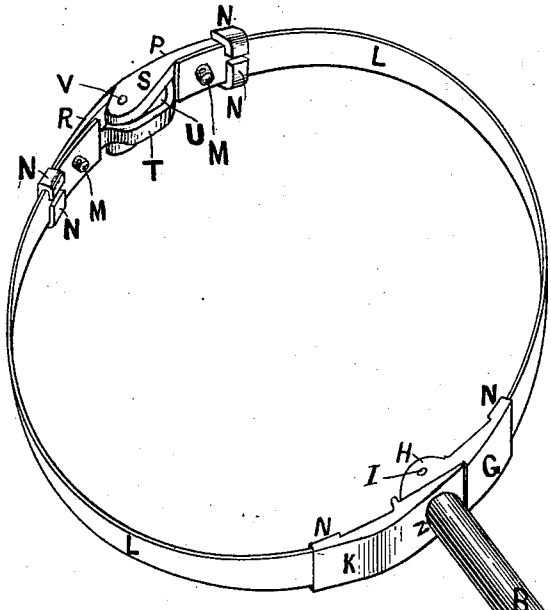


FIG. 1.

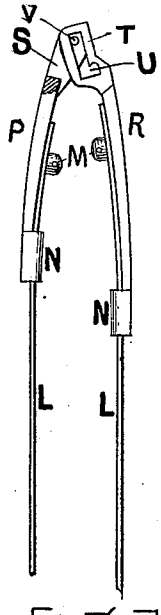


FIG. 2.

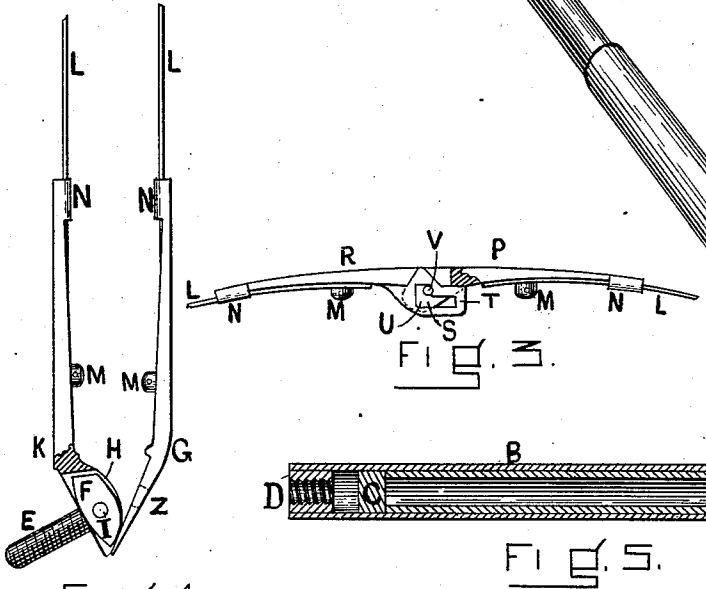


FIG. 4.

FIG. 3.

FIG. 5.

WITNESSES:

William L. Parry

E. F. Emanuel

INVENTOR:

James Reed,

By Sylvenus Walker

Attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JAMES REED, OF CAMBRIDGE, MASSACHUSETTS.

FOLDING HOOP FOR LANDING NETS.

SPECIFICATION forming part of Letters Patent No. 367,928, dated August 9, 1887.

Application filed March 15, 1887. Serial No. 231,028. (No model.)

To all whom it may concern:

Be it known that I, JAMES REED, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Folding Hoops for Landing Fish-Nets, of which the following is a specification.

The objects of my invention are to provide a cheap, simple, light, strong, convenient, and durable folding hoop for landing fish-nets; and it consists in the novel construction, combination, and arrangement of the several parts of the folding joints of the hoop and other details of construction, hereinafter more fully described, and specifically set forth in the claims.

Figure 1 represents a perspective view of a jointed folding hoop constructed according to my invention. Fig. 2 represents an edge view or plan of one of the joints in a folded position. Fig. 3 represents a similar view of the same open and locked in position ready to form the hoop. Fig. 4 represents a similar view of the opposite joint portion in a folded position. Fig. 5 represents a longitudinal central section of the connecting end portion of the handle.

A represents a hollow water-proof bamboo handle, to the smaller end of which is secured a long ferrule, B, within the outward or tip end portion of which is inserted a water-tight plug, C, and within the extreme end is secured a screw-threaded plug, D, adapted to receive the screw-threaded shank-bolt E, the head end, F, of which is pivoted between the projecting ears H of the handle-joint connecting piece G by a rivet or pin, I, as shown in Fig. 4, wherein one of the said ears H is broken away to show the head of the screw-bolt, the screw-threaded portion of which bolt E is inserted through a hole at Z, formed in the opposite joint-piece, K, near the end thereof, when the hoop L, formed of spring-steel, is bent ready to be attached to the handle, as shown. The said steel spring-hoop L is secured to these joint-pieces G and K by means of the projections N, formed on the opposite edges of the said joint-pieces G K, as shown, being bent inwardly over and upon the flat steel spring-hoop pieces L, as shown in Fig. 1, of the opposite end joint of the hoop-pieces L, as connected to the joint-pieces P and R, the joint-piece P being formed with projecting ears S and the joint-piece R with a projection, T, provided with a slot, U, of L shape, or a short right-angle opening at one end thereof, as shown in Figs. 2 and 3. A rivet, V, is inserted through suitable holes formed in the opposite ears S, and passes into or through the angle-slot U, as shown in Figs. 2 and 3, this forming a sliding and lock joint connection between the opposite portions of the hoop, which serve the purpose of holding the parts firmly in position as a hoop. (Shown in Figs. 1 and 3.) In the latter view one of the ears S is broken away to show the position of said rivet V in the short portion of the angle-slot U, where it has a firm bearing, and the end of the joint-piece T bears against the inner face of the joint-piece P, and the end or inclined portion of the ears S contacts with corresponding inclined portions formed at opposite sides of the projection T on the said joint-piece R, as shown, thus forming a very strong lock-joint. The ends of the said flat steel hoops L are further secured to the said joint-pieces G, K, P, and R by means of the rivet-studs M, the inward-projecting head ends of which are provided with small holes, so as to permit a net to be secured to the hoop, as usual. It will be seen and understood that said flat steel hoop-pieces L are formed straight, and each piece remains so when left free or in its normal position, as shown in Figs. 2 and 4.

When desired to form the hoop, the central joint is brought into position, as shown in Fig. 3. Then the opposite ends are brought together, and the shank-bolt E is passed through the hole Z, formed in the joint-piece K near its end, as indicated. Then the screw-threaded end portion of the shank-bolt E is inserted in the screw-threaded plug D by turning or rotating the said handle A until the several parts are drawn together in position, as shown in Fig. 1. When the said spring-hoop is not required for use, it may be unscrewed or disconnected from the handle and folded together and placed within the hollow handle, as heretofore. It will be seen and understood that said central or middle joint-connections, P and R, may be dispensed with, the said flat steel spring-hoop portions L being formed of a single piece of sufficient length to form the hoop when the opposite ends thereof are connected to the said joint-pieces G K, as above described, and then sprung or bent into position, so as to

form the hoop when secured to the handle, as above described.

I am aware that similar folding hoops have heretofore been constructed; but the formation of the joint-connections are such as to render the parts comparatively heavy and inconvenient to adjust, and less durable than the improved hoop-joints above described.

Having thus described my invention, what I claim is—

1. The combination, with the handle A, having the screw-threaded plug D, of the joint-piece G, provided with ears H, and having pivoted thereto the shank-bolt E, the joint-piece K, provided with a hole to receive said bolt, and the flat spring-steel hoops L, secured at each end to the said joint-pieces G K, as described.

2. The combination, with the handle A, having the screw-threaded plug D, of the joint-piece G, provided with ears H, and having pivoted thereto the shank-bolt E, the joint-piece K, provided with a hole to receive said bolt, the flat spring-steel hoop-pieces L L, secured at one end to the said joint-pieces G K, the joint-piece P, having ears S, provided with the rivet V, the joint-piece R, having the projection T, provided with the slot U, and adapted to slide on the said rivet and engage therewith when locked, said joint-pieces P and R being secured to the opposite ends of the said hoop-pieces L L, substantially as described.

JAMES REED.

Witnesses:
SYLVENUS WALKER,
EDGAR F. SHAW.