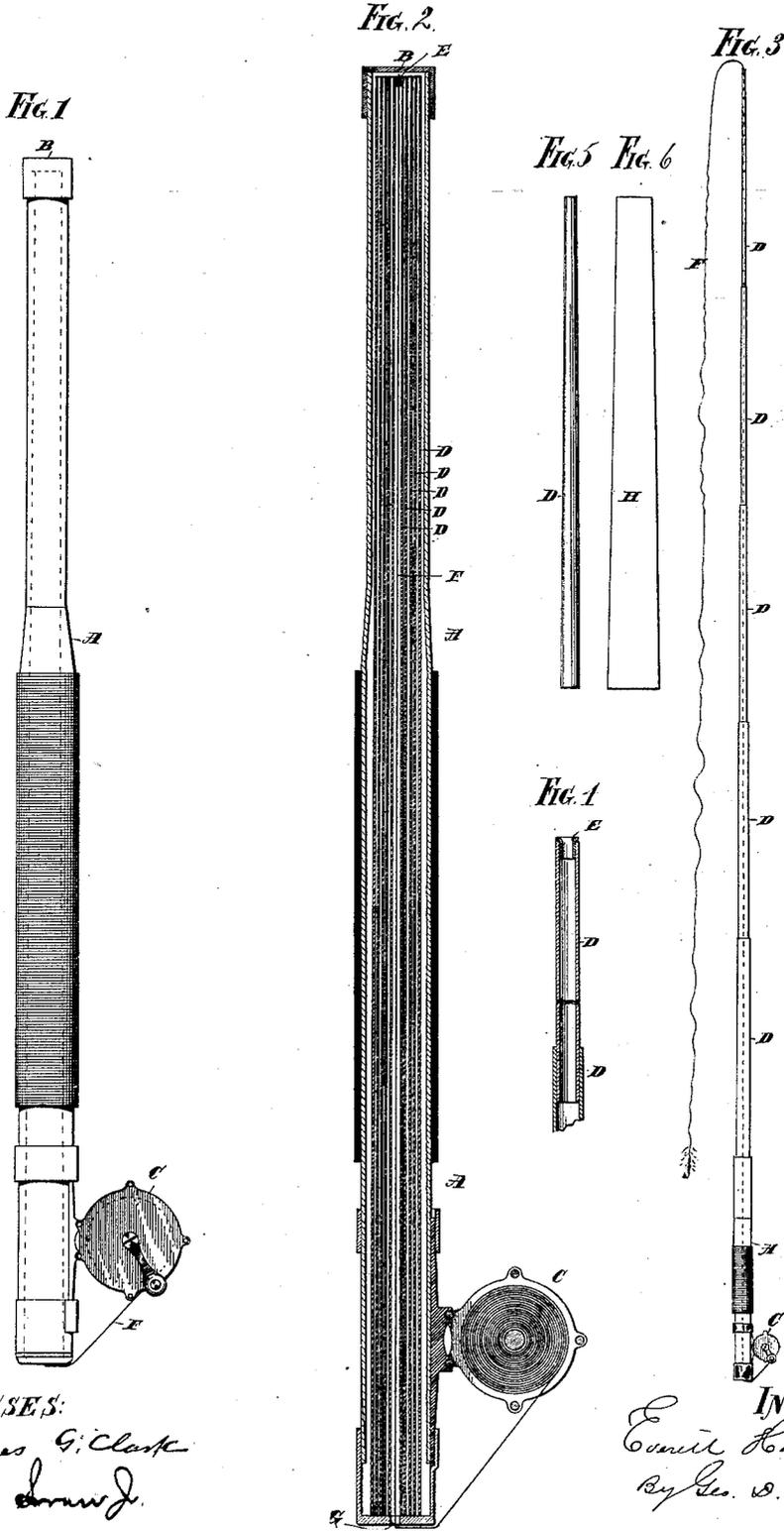


(No Model.)

E. HORTON.
FISHING ROD.

No. 359,153.

Patented Mar. 8, 1887.



WITNESSES:
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C. L. Edwards

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UNITED STATES PATENT OFFICE.

EVERETT HORTON, OF BRISTOL, CONNECTICUT.

FISHING-ROD.

SPECIFICATION forming part of Letters Patent No. 359,153, dated March 8, 1887.

Application filed September 6, 1886. Serial No. 212,788. (No model.)

To all whom it may concern:

Be it known that I, EVERETT HORTON, residing at Bristol, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Fishing-Rods; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in fishing-rods, the object being to produce a light and compact rod of superior convenience, elasticity, and durability, and one in which the line is protected against entanglement throughout the length of the rod.

With these ends in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation of one form which a fishing-rod embodying my invention may assume. Fig. 2 is an enlarged view thereof in central longitudinal section. Fig. 3 is a view in elevation of the rod as extended for use. Fig. 4 is a broken sectional view of the tip-section or tip and the section next to it. Fig. 5 is a detached view in elevation of one of the sections, and Fig. 6 is a view of such a blank as the sections may be formed from.

As herein shown, the rod is provided with a hollow wooden butt, A, having its open end closed by a removable cap, B, and provided with a reel, C, such butt and reel being of any approved construction.

The rod proper is composed of a series of spring-tempered tapering tubular metallic sections, D, larger at their inner than at their outer ends, and proportioned to form, when extended, a rod satisfying the requirements of poise, flexibility, and symmetry. The said sections are constructed to telescope one within the other until all are inclosed in the butt-section, with the tip-section or tip in the center, as shown by Fig. 2 of the drawings, and to bind at adjacent extremities, as shown by Fig. 4 of the drawings, to form friction-joints which are stiffened as the rod is exposed to longitudinal strain, as in use. The outer end of the tip-section or tip is provided with a short tube, E, having a beveled or flaring surface, to avoid chafing the line F. The said line passes centrally through all of the sections, including the tip-section or tip, being led from the reel into the butt through an

opening, G, therein, whereby it is prevented from entanglement throughout the length of the rod.

The sections may be formed by folding sheet-metal blanks like that designated by H, and shown by Fig. 6 of the drawings, or in any other way, and from sheet or drawn steel or any other suitable material.

Except when in use the rod will preferably be telescoped, as shown by Figs. 1 and 2 of the drawings. When telescoped, it is entirely inclosed by the butt and the cap thereof, the same forming a convenient, safe, and compact package for it.

A rod embodying my invention, being light, compact, strong, durable, extremely flexible, stiffening with the strain imposed upon it in use, and locating the line out of the way, obviously combines the best of sporting qualifications in a fishing-rod.

The butt A may be dispensed with, if desired, and other changes made in the rod. I would therefore have it understood that I do not limit myself to the exact construction and arrangement of parts herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

I am aware that a telescopic fishing-rod is not new, and I do not, therefore, broadly claim such a rod; but,

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

1. A spring-tempered metallic tubular fishing-rod, substantially as set forth.

2. A spring-tempered tubular metallic tip for a fishing-rod, substantially as set forth.

3. A fishing-rod composed of spring-tempered tubular metallic sections constructed to telescope one within the other, in combination with a line passing through them, substantially as set forth.

4. A fishing-rod consisting of two or more tapering spring-tempered tubular metallic sections, each consisting of a single long piece of metal folded transversely, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EVERETT HORTON.

Witnesses:

JAMES G. CLARK,
C. L. SWAN, Jr.