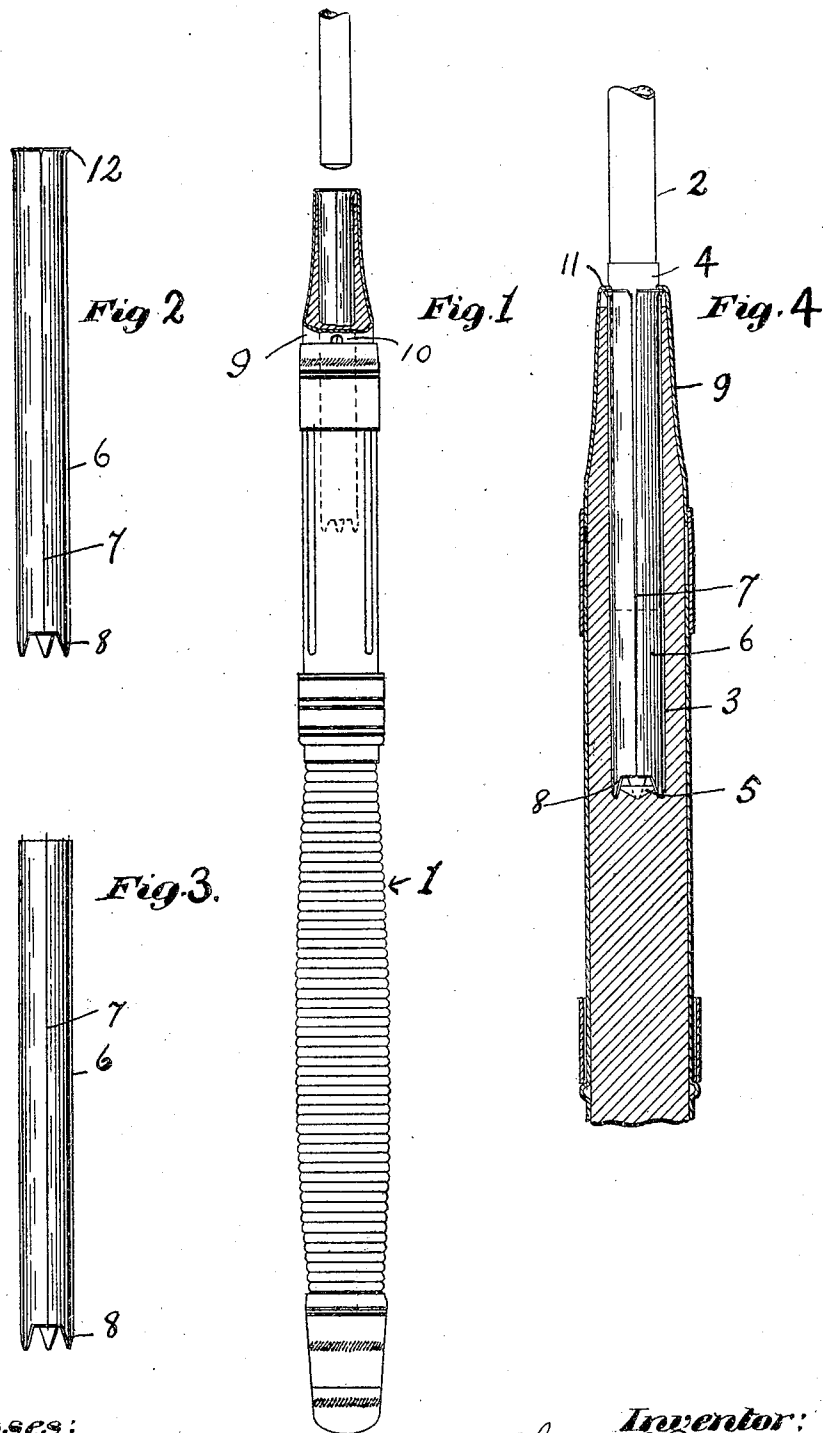


No. 799,810.

PATENTED SEPT. 19, 1905.

C. A. TREDWELL.  
JOINT OR UNION FOR FISH RODS.  
APPLICATION FILED APR. 5, 1905.



Witnesses:  
Nathan C. Lombard.

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By J. H. Anderson,  
Att'y.

# UNITED STATES PATENT OFFICE.

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## JOINT OR UNION FOR FISH-RODS.

No. 799,810.

Specification of Letters Patent.

Patented Sept. 19, 1905.

Application filed April 5, 1905. Serial No. 253,999.

*To all whom it may concern:*

Be it known that I, CHARLES A. TREDWELL, a citizen of the United States, residing at Bristol, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Joints or Unions for Fish-Rods; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to fish-rods, and more particularly to an improved socket for receiving the end of a section of a jointed rod, and particularly designed for use in the handle or grip of a jointed rod.

As is well known to those skilled in this art, the grip or handle of a metallic jointed rod is formed separately from any of the sections and is provided with a socket at one end designed to receive and frictionally hold the end of a section, which is usually provided with a ferrule, which in building up the rod for use is forced into the socket of the handle or grip.

It is essential that the ferrule of the joint or section shall be of such a size with relation to the bore of the socket in the handle or grip as to fit therein with the proper frictional contact, and prior to the present invention it required much care and skill to secure this proper fit, slight variations in the diameter of the ferrules necessitating the special fitting of the ferrule of the first joint or section to the handle or grip in almost every rod made.

The object of the present invention is to provide an improved socket for the handle or grip of such a construction that it will receive and hold with the desired frictional contact the ends of joints or sections which may vary slightly in diameter, and thus do away with the necessity of specially fitting the ferrule to the socket in every case.

To the above ends the present invention consists of the improved socket for fish-rods which will be hereinafter described and claimed.

The present invention is shown in the accompanying drawings, in which—

Figure 1 shows a handle or grip of a jointed fish-rod containing my improved socket, portions of the structure being broken away to show the interior construction. Fig. 2 shows the expanding thimble removed. Fig. 3 shows

a truly cylindrical thimble. Fig. 4 shows an enlarged sectional view.

Similar reference characters will be employed throughout the several views to designate corresponding parts.

In the drawings, 1 shows a handle or grip such as is usually employed in jointed rods, and 2 a portion of the joint or section which is fitted to the handle or grip 1 in fitting up the rod for use.

The handle or grip 1 has a socket 3, into which the ferrule 4 of the joint or section 2 is adapted to be inserted and in which it is frictionally held. In order that the socket 3 may accommodate itself to ferrules which vary slightly in diameter, and thus obviate the necessity of specially fitting the ferrules and sockets to each other, there is fitted in the bore 5 an expanding thimble 6, which thimble is made of a piece of sheet-steel rolled into a cylindrical form, the meeting edges forming a joint or seam 7, but not united, whereby the thimble 6 may be free to expand when the ferrule 4 is forced into it and compressingly frictionally grip the surface of the ferrule 4. The thimble 6 is provided at its inner end with teeth or points 8, which are driven into the handle or grip at the base of the socket 3, whereby said thimble will be prevented from turning in the socket 3 should the joint or section 2 be turned with relation to the handle or grip 1 in disconnecting the two, as is frequently done. The thimble 6 is held in place by the sleeve or cap 9, which is fitted to the end of the grip or handle 1 and secured thereto by screws 10 or in any other suitable manner and which has a flange 11, which overlies the outer end of the thimble, all as clearly shown in the drawings, and said thimble may be truly cylindrical throughout its length or have its outer end formed slightly flaring, as shown at 12, thus facilitating the insertion of the ferrule of the joint.

It is thought that the operation of my invention will be clear from the foregoing description of its construction and arrangement.

Having described my invention, I claim as new and desire to protect by Letters Patent of the United States—

1. A fish-rod comprising a plurality of sections one of said sections provided with a cylindrical socket, a split metallic thimble fitted in said socket and provided with teeth

at its inner end driven into the lower end of the socket and a mating section provided with a cylindrical end arranged to fit the metallic thimble, substantially as described.

- 5 2. A fish-rod comprising a plurality of sections one of said sections provided with a cylindrical socket, a split metallic thimble fitted in said socket, a flanged sleeve or cap secured to said section and engaging the

outer end of the thimble and a mating section 10 provided with a cylindrical end arranged to fit said thimble, substantially as described.

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

CHARLES A. TREDWELL.

Witnesses:

JOS. D. BROWN,

CHAS. T. TREADWAY.