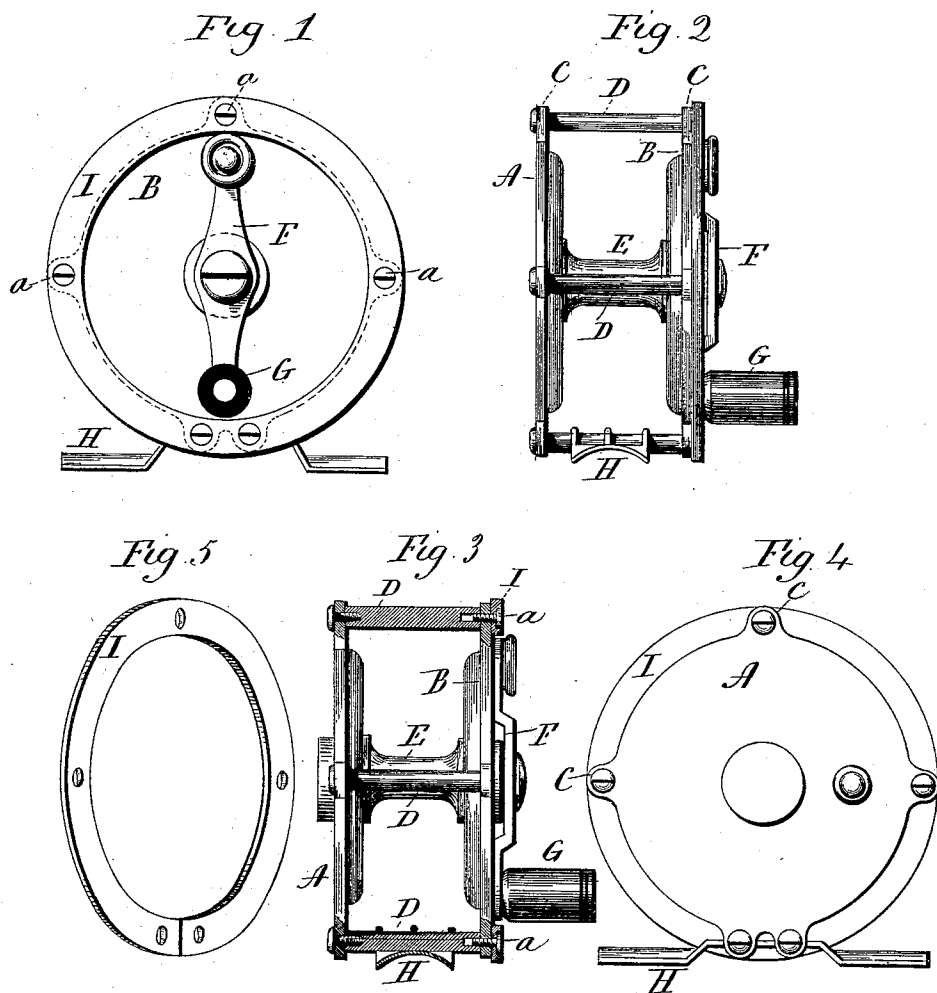


(No Model.)

A. B. HENDRYX.
FISHING REEL.

No. 487,481.

Patented Dec. 6, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

ANDREW B. HENDRYX, OF NEW HAVEN, CONNECTICUT.

FISHING-REEL.

SPECIFICATION forming part of Letters Patent No. 487,481, dated December 6, 1892.

Application filed September 21, 1892. Serial No. 446,368. (No model.)

To all whom it may concern:

Be it known that I, ANDREW B. HENDRYX, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Fishing-Reels; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a crank end view of the reel; Fig. 2, a side view of the same; Fig. 3, a side view showing the heads in partial section; Fig. 4, an opposite end view; Fig. 5, a perspective view of the ring detached.

This invention relates to an improvement in that class of fishing-reels in which the spindle is arranged between two heads, the two heads connected by posts outside the spool and so that the spool revolves between the heads and inside the posts, the crank being outside of one of the heads. The arm of the crank is arranged to run as closely as possible to the outer surface of the head, and in some cases it is desirable to form a guard on the head around the arm, and this is done by making a concentric recess on the outside of the head, the diameter of the recess being such as to permit the arm of the crank to revolve therein. In making the heads with the recess of brass, copper, or similar ductile metal the head is struck up, so as to produce the desired recess. Without such recess the heads are both formed with radially-projecting ears, through which the posts extend; but in the case of a head in which the recess is formed the diameter of the head must be increased accordingly and so that the posts on that head will extend to the rim or projection around the recess. This enlarges the head to a very considerable extent. Otherwise than the recess in the head the reel throughout is the same as other reels without the recess, the difference being in the formation of the head only.

In manufacturing reels it is necessary to make the heads with the recess, as well as the heads without the recess, and a reel having the recessed head must always possess that re-

cess, and vice versa, and in order to supply the market the manufacturer must carry a stock of both kinds of heads. Again, when heretofore it has been desired to make a recessed head from a metal or material not sufficiently ductile to be struck up it has been necessary to cast or mold the material and then finish the head, adding very greatly to the cost. Particularly is this the case when the head is to be made from aluminum; but when the heads are so made there is the same fixed character of reel as before mentioned.

The object of my invention is to construct the reel so that it may be readily made either a recessed head or without the recess or so that a reel having a recessed head may be converted to a reel without a recessed head, and vice versa; and the invention consists in the construction, as hereinafter described, and particularly recited in the claim.

A represents the one head, and B the other head, of usual construction, these heads having radial projections C, and by means of which the heads are connected by posts D. The heads are secured to the posts by means of screws *a* through the projections C, as shown, and as in the usual construction. The spool E is arranged between the heads, also in the usual manner, and is provided with the crank-arm F, to which the usual handle G is applied, and the reel is also provided with the usual saddle H.

I represents a ring of an external diameter corresponding to the diameter across the heads including the projections C, and of an internal diameter slightly greater than the length of the crank-arm. This ring should be of a thickness substantially the same as that of the crank-arm. The ring may be made from a strip of material bent so as to bring the two ends together, as seen in Fig. 5, or it may be an endless ring. The ring is drilled corresponding to the screws *a*, by which the heads are secured to the post. The ring is set onto the outside of the head and the screws are introduced through the holes in the ring, thence through the projection C into the post, so that the screws not only secure the heads to the post, but secure the ring to the head.

The ring thus arranged forms a concentric recess in the head around the crank and within which the crank may swing. This ring strengthens the head and gives a protection
5 to the crank. If the recessed head is not desired, then the ring is omitted, the reel being a practical working reel with or without the ring. The user may remove the ring or replace it, as his fancy or requirements may
10 suggest.

The manufacturer in assembling his reels may apply the ring or not, as his orders demand, and thereby avoid carrying the stock of heads, one class recessed and the other not,
15 as must be the case without this removable ring and as before mentioned. This construction permits the formation of the head to which the ring is to be applied as a flat disk, and the application of the ring permits
20 a conversion of that head into a recessed head without the striking up, turning, or finish-

ing which has heretofore been required in the manufacture of the recessed head.

I claim—

In a fishing-reel composed of two heads with 25 the spool between, the heads connected by posts outside the spool and having a crank outside one of the heads, by which the spool may be rotated, the combination therewith of a detachable ring outside the head upon which 30 the crank is arranged, the internal diameter of the ring being somewhat greater than the length of the crank and so that the crank may swing within said ring, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses. 35

ANDREW B. HENDRYX.

Witnesses:

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HARRY E. HENDRYX.