

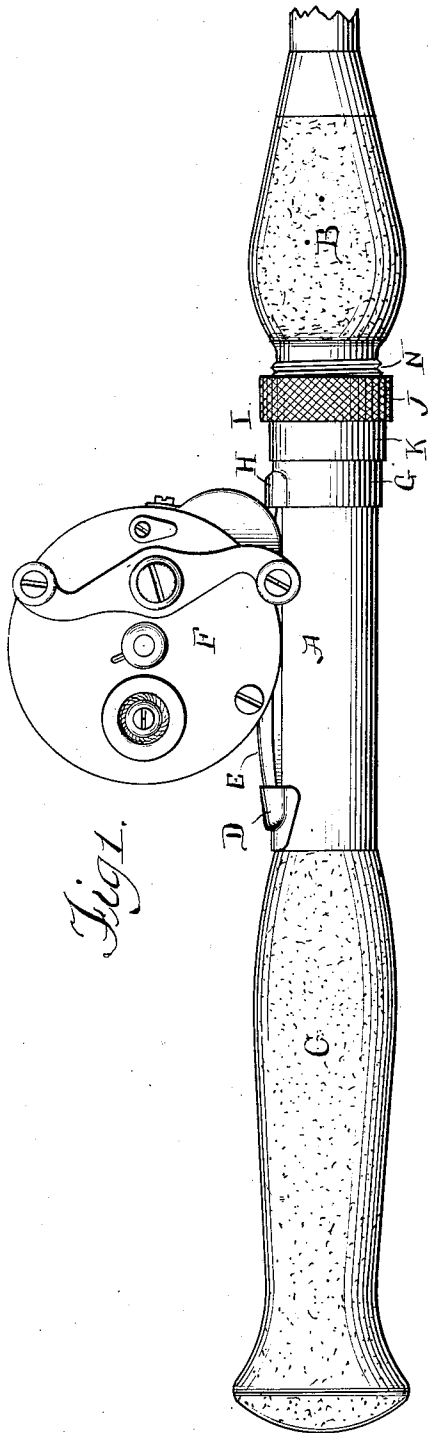
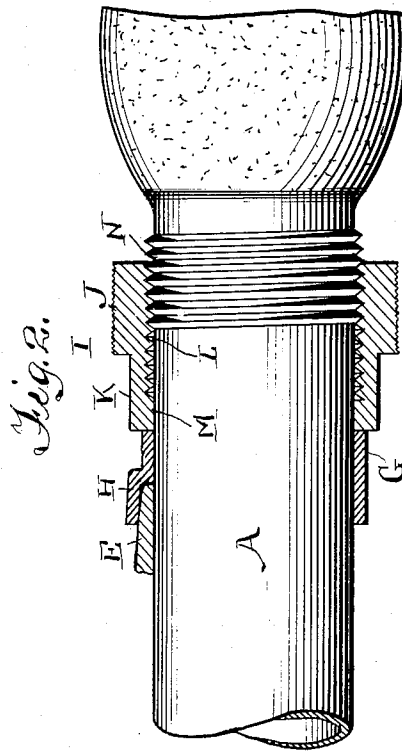
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C. HEDDON ET AL

REEL SEAT FOR FISHING RODS

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Inventors,
Charles Heddon
Jack T. Welch
By *Banning & Banning* Attorneys

UNITED STATES PATENT OFFICE.

CHARLES HEDDON AND JACK T. WELCH, OF DOWAGIAC, MICHIGAN, ASSIGNORS TO
JAMES HEDDON'S SONS, OF DOWAGIAC, MICHIGAN, A CORPORATION OF MICHIGAN.

REEL SEAT FOR FISHING RODS.

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In the construction of fish rods it is customary to provide a reel seat on the barrel of the rod near the handle, which seat customarily comprises a fixed socket adapted to receive one end of the reel base plate, and a movable ring socket adapted to engage the other end of the reel base plate; and various means have been devised for imparting longitudinal movement to the movable ring socket in order to tightly and firmly engage the reel base. In most of these prior constructions, however, no satisfactory means have been provided for smoothly and evenly imparting the necessary longitudinal movement referred to, especially where provision is made for seating and clamping reel base plates of varying thickness. In most cases it has been customary to afford a relatively loose sliding fit to the clamping ring to accommodate such variations, but this is objectionable in that the ring when moved to clamping position has usually been more or less tilted or canted, so that a firm, even contact is not provided. Such clamping rings, moreover, have usually relied solely on friction to prevent longitudinal movement of the base plate without affording positive abutments against the positive ends of the base plate.

The present invention is designed to meet the objections above noted, and to provide means for surely and rigidly holding the reel seated, and to provide for such variations in the length of the reel base plate as may be ordinarily met with in practice.

Further objects and details of the invention will appear from a detailed description with reference to the accompanying drawings wherein:

Figure 1 shows a side elevation of the handle portion of a rod with a reel clamped in place; and

Fig. 2 is an enlarged view of the movable socket ring and adjustable follower ring in section, the rod barrel being shown in elevation.

The invention is shown applied to a rod having a smooth cylindrical barrel A provided with a forward handle grip B and a rear handle grip C of the usual variety. The barrel is provided at its rear end with a fixed hooded socket D adapted to receive the rear end of a reel base plate E connected with a reel F of the usual character.

The fixed socket D co-operates with a

clamping ring G provided with a hooded socket portion H adapted to engage with the forward end of the reel base plate E. Each of the hooded sockets is configured to afford a square offset at its inner end so that when the reel base plate is seated, and the clamping ring moved to its final position, the ends of the base plate will rest in butt contact with the inner ends of the respective sockets, so that no fore and aft play of the reel will be permitted.

The slidable clamping ring is adapted to be moved into clamping relation with the reel base plate by means of an adjustable follower ring I which consists of an outwardly enlarged knurled portion J and a reduced portion K, which latter abuts squarely against the forward edge of the clamping ring G and is adapted to impart an even and uniform fore and aft motion to the latter. The follower ring is provided on its inner surface with threads L, which terminate at a point inside of the rear edge of the follower ring to afford a smooth or unbroken riding surface M which closely encircles the barrel of the rod and rides smoothly thereon.

The threaded portion of the adjusting ring engages with outstanding threads N on the barrel near the forward end thereof, the follower ring being of sufficient length to afford sufficient retraction to permit the base plate of the reel to be seated free of the movable socket H, after which a turning of the adjustable follower ring will cause the same to move rearwardly carrying with it the clamping ring which will slide smoothly and closely upon the barrel until moved to a position to tightly engage and hold the reel in place.

The arrangement is one which permits of the use of a movable clamping ring of a size to closely embrace the barrel without the possibility of play or tilting movement thereon, and the arrangement of the follower ring is such as to afford a smooth sliding movement upon the barrel. The arrangement is distinctly superior to one in which the threads are interrupted to afford a socket for the reel base plate, or to any construction in which an effort is made to combine the functions of a clamping ring with those of the rotatable follower ring. By providing a slidable unthreaded clamping ring which need not be rotated, the

socket portion thereof can be always maintained in alignment with the fixed socket on the upper side of the barrel, so that the major portion of the ring will maintain a close sliding fit with the barrel, and by combining such a non-rotating ring with a rotatable follower ring having close riding contact with the barrel, a firm and even pressure may be exerted on the clamping ring which is highly desirable in order to ensure a tight and firm engagement with the reel base plate.

The arrangement is one which positively insures against any displacement of the reel when in use, and at the same time, by moving the clamping ring to a greater or less degree, the device will adapt itself to reel base plates of varying length, since in every case the reel will be firmly engaged when the clamping ring has been moved sufficiently to force both ends of the base plate into butt contact with the extreme inner walls of the respective sockets, this adjustment being facilitated by the slightly tapered formation at each end of the reel base plate. This positive butt contact against both ends of the reel base plate affords an unyielding engagement with the reel, which is much superior to that afforded by clamping rings or the like which engage the reel base plate by friction only without positively restraining the reel against longitudinal movement.

We claim:

1. In a reel seat, in combination with a barrel, a socket fixedly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, a set of threads on the barrel, and a follower ring adapted to abut against the clamping ring and provided with an inner bore adapted in part to engage with the threads on the barrel, and in part to ride freely upon the unthreaded portion of the barrel, substantially as described.

2. In a reel seat, in combination with a barrel, a socket fixedly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, a set of threads outstanding from the barrel, and a follower ring inwardly threaded throughout a portion of its length to engage the threads on the barrel, and unthreaded throughout a portion of its length to afford a smooth sliding contact with the smooth portion of the barrel, substantially as described.

3. In a reel seat, in combination with a barrel, a socket fixedly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, each of said sock-

ets affording an abutment at its inner end adapted to contact the adjacent end of the reel base plate to prevent movement, a set of threads on the barrel, and a follower ring adapted to abut against the clamping ring and provided with an inner bore adapted in part to engage with the threads on the barrel, and in part to ride freely upon the unthreaded portion of the barrel, substantially as described.

4. In a reel seat, in combination with a barrel, a socket firmly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, each of said sockets affording an abutment at its inner end, adapted to contact the adjacent end of the reel base plate to prevent movement, a set of threads on the barrel, and a follower ring inwardly threaded throughout a portion of its length to engage the threads on the barrel, and unthreaded throughout a portion of its length to afford a smooth sliding contact with the smooth portion of the barrel, substantially as described.

5. In a reel seat, in combination with a barrel, a socket fixedly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, said socket affording an abutment at its inner end adapted to engage the adjacent end of the reel base plate to prevent longitudinal movement, a series of threads on the exterior of the barrel, and a rotatable follower ring in edgewise abutment against the clamping ring and provided with an inner bore threaded to engage with the threads on the exterior of the barrel, substantially as described.

6. In a reel seat, the combination with a barrel, a socket fixedly mounted on the barrel, a clamping ring closely fitting the barrel and slidably mounted thereon and provided with an outwardly protruded portion furnishing a movable socket, each of said sockets affording an abutment at its inner end adapted to contact the adjacent end of the reel base plate to prevent movement, a follower ring rotatably mounted on the barrel and in edgewise abutment against the clamping ring, and co-acting means on the exterior of the barrel and the interior of the follower ring for advancing the follower ring upon rotation thereof and crowding the clamping ring inwardly, substantially as described.

7. In a reel seat, the combination with a barrel, a socket mounted on the barrel and adapted to furnish an end abutment for engagement with one end of a reel base plate, a member slidably mounted on the barrel and adapted to furnish an end abutment for engagement with the opposite end of the reel base plate to prevent longitudinal movement

thereof, means contiguous to the end abutting portion of said member and configured to overlap and embrace the outer face of the said end of the reel base plate, threads on the exterior of the barrel, and a follower ring engaging said threads adapted to abut against and advance said means for abutting and overlapping the contiguous end of the reel base plate, substantially as described.

10 8. In a reel seat, the combination with a barrel, a socket fixedly mounted on the barrel and adapted to furnish an abutment for engagement with one end of a reel base plate, means slidably mounted on the barrel and

adapted to overlap and engage the outer 15 face of the opposite end of the reel base plate, threads on the exterior of the barrel, and a follower ring engaging said threads and in edgewise abutment with and adapted to advance the said overlapping means, the 20 parts, when inwardly adjusted, furnishing a socket affording an abutment and an overlap for the extreme end of the reel base plate to prevent longitudinal and lateral movement thereof, substantially as described.

CHARLES HEDDON.
JACK T. WELCH.