

April 13, 1937.

W. E. EDWARDS

2,076,629

REEL SEAT ASSEMBLY

Filed June 22, 1935

Fig. 1

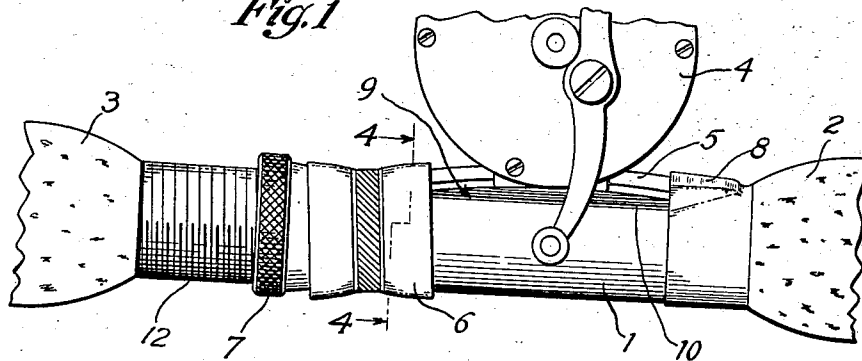


Fig. 2

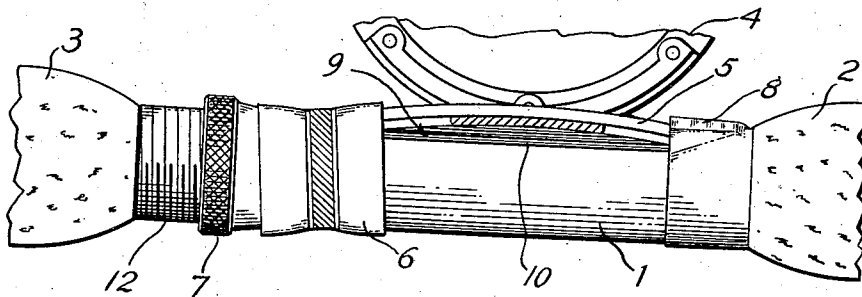


Fig. 3

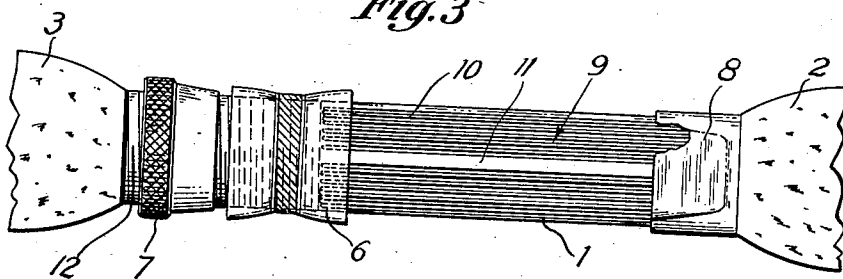


Fig. 4

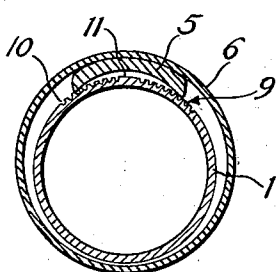
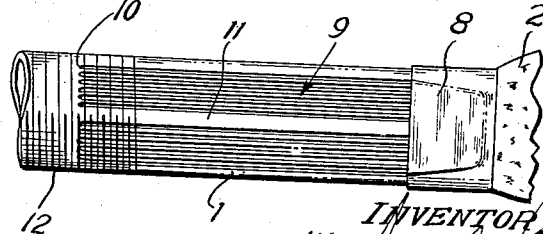


Fig. 5



INVENTOR
WILLIAM E. EDWARDS

By *W. E. Edwards*
ATTORNEY

UNITED STATES PATENT OFFICE

2,076,629

REEL SEAT ASSEMBLY

William E. Edwards, Mount Carmel, Conn., as-
signor to The Horton Manufacturing Company,
a corporation of Connecticut

Application June 22, 1935, Serial No. 27,982

17 Claims. (Cl. 43—22)

My invention relates to reel seat assemblies.

It has among its objects to provide an improved reel seat assembly adapted to hold securely reels of widely varied structure and size.

5 A further object of my invention is to provide such a reel seat assembly having improved means engaging the base of the reel and cooperating therewith in an improved manner to prevent slipping of the latter. Still further objects of
10 my invention are to provide an improved and simplified reel seat structure whereby the structure of the same is substantially improved and one wherein at the same time that the seat is adapted to use with a wide variety of reels, it is
15 also made possible to eliminate the need for the longitudinal reel base engaging ribs heretofore provided on such seats. Another object of my invention is to provide an improved reel seat assembly including such an improved seat and
20 especially adapted to cooperate with a rocking sleeve of the construction described and claimed in my co-pending application Serial No. 24,573, to clamp securely reels of widely varying types and sizes into position on the seat. These and
25 other objects and advantages of my improved construction will, however, hereinafter appear.

In the accompanying drawing I have shown for purposes of illustration certain embodiments which my invention may assume in practice.

30 In the drawing,—

Figure 1 is a side elevation of one form of my improved reel assembly, with a reel mounted thereon;

35 Fig. 2 is a side elevation of the assembly, with a larger reel than shown in Figure 1, a portion of the reel being broken away to facilitate illustration;

Fig. 3 is a plan view of the reel assembly, the reel being removed therefrom;

40 Fig. 4 is a sectional view on line 4—4 of Fig. 1, and

Fig. 5 is a detail plan view of a modified form of seat.

45 In the construction shown in Figures 1—4, it will be noted that the structure is generally similar to that described in my previous application mentioned, including a reel seat or barrel 1 carrying front and rear grips 2 and 3 and having a reel 4 clamped by its base 5 on the reel seat by
50 a rocking socket member or clamping sleeve 6 operated by a rotatable actuating nut 7 when one end of the base is disposed in a socket 8 and the other under the sleeve 6; the seat 1 herein being of an improved construction whereby it

cooperates with the base 5 in an improved manner as hereinafter described.

Referring more particularly to the seat 1, it will be noted that while it is provided at the front end with a usual socket 8 adapted to receive one end of the reel base 5, the parallel ribs usually provided on the seat 1 along the edges of the socket 8 are omitted and an improved frictional seating surface provided. Herein this new seating surface, generally indicated at 9, is of the width of the socket 8 and extends in
10 under the same and lengthwise of the seat 1 throughout the length of the reel base intended to cooperate therewith. Herein, the seat 9 is roughened in such manner as to create a plurality of recesses and comprises a series of fine, closely grouped milled lines or grooves 10 extending longitudinally of the upper surface of the seat 1, preferably with an unmilled portion 11 between
15 the same and the grooves 10 extending just to the threaded portion 12 on which the nut 7 is rotatable. Thus, it will be observed that since the radius of the concave under surface of reel base 5 is smaller than the radius of the reel seat 1, the milled out grooves 10 must engage the inner or lower side edge corners of the base in
20 such manner as even further to eliminate likelihood of slipping of the base 5 when the same is clamped in position by the rocking member 6 and nut 7. The engagement of the side edges of the base with certain of the grooves in one of the end sockets is shown in Figure 4, and in
25 this instance it will be observed that the side edges of the base would engage other grooves of the group in a manner to prevent lateral displacement of the base if the base were either somewhat wider or somewhat narrower than as shown in Figure 4.

30 As a result of my improved construction, it is made possible not only to eliminate the longitudinal ribs heretofore provided on the reel seat, but all need for providing a reel base to cooperate therewith which has its base of just such width that it fits snugly between the ribs, as has heretofore been necessary in order to
35 make the ribs effective as securing means. On the contrary, in the present construction, the width of the reel base within certain limits is immaterial, since it is bound to engage at its side edges in one or another of the grooves 10 in the milled out portion 9. Further, it will be evident that the milled portion 9 as shown herein will exert a gripping effect irrespective of the length of the reel base 5 within certain limits, or whether the same is bowed upward be-
40 45 50 55

tween its ends, or lies flat at its edges throughout its length on the reel seat. For example, in Figure 2 the base of the reel is longer than in the assembly shown in Figure 1. In fact, with this improved construction it is made possible to tighten securely on the reel seat almost every kind of reel on the market irrespective of variations in size and conformation of the reel base, all in such manner as substantially to increase the range of usefulness of the assembly and the rod carrying the same. Here, of course, it will be understood that where unusually large sizes of reel bases are to be accommodated, as, for example, in certain salt water reels, the reel seat may also be made in different sizes, although, due to my improved construction, the number of such sizes required is materially reduced.

In Figure 5, I have illustrated a modified construction of reel seat which may be used if desired. Here, it will be noted that, while the grooved portion 9 is of the same construction as that heretofore described, the grooves 10 extend beyond and into the threaded portion 12. Although such a construction is not preferred, it obviously will function generally similarly to that previously described, while the gripping action therein will be provided clear out to the ends of the grooves 10. Ordinarily, however, it will be understood that the reel bases are of such length as to be disposable within the limits of the milled lines shown in Figure 3.

It will be understood from the foregoing description that by my invention I provide a fishing rod provided with a barrel having reel base holding means for attaching any of a number of reel bases of different widths in substantially the same peripheral location on the barrel, said bases having their median lines centered on approximately the same longitudinal peripheral line of the barrel. This means includes a recessed peripheral surface on the barrel body engageable with the reel bases from beneath, the barrel and reel base interengaging within the lines of the barrel body, and the reel base holding means clearing the side edge portions of the bases at the outer parts of said edge portions. The bases have side edges provided with sharp corners as shown in Fig. 4, so that the base will be effectively engaged with certain of the fine grooves on the barrel surface.

Although I have herein shown my improved seat as used in connection with a clamping means of the construction described and claimed in my co-pending application, and the same is especially adapted to use in connection therewith, it will be understood that my improved seat is not limited to such use but may be used in connection with other types of clamping means.

While I have in this application specifically described certain forms which my invention may assume in practice, it will be understood that these forms are shown for purposes of illustration and that the invention may be modified and embodied in other forms without departing from its spirit or the scope of the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. In a reel seat assembly, a reel seat carrying reel base securing means, and frictional seat forming means having a roughened surface engageable with a reel base from beneath for inhibiting slipping thereof.

2. In a reel seat assembly, a member carrying reel base securing means, and a milled surface on said member comprising a plurality of fine

grooves certain of which are engageable with a reel base at the side edges of the latter for inhibiting slipping thereof.

3. In a reel seat assembly for fishing rods, a barrel having a reel seat, socket means engageable with one end of a reel base, clamping means engageable with the other end thereof, and frictional means comprising a roughened surface on said barrel engageable with reel bases of different widths occupying substantially the same peripheral location on the barrel to inhibit displacement thereof.

4. In a fishing rod, a barrel having reel base holding means including a cooperating recessed peripheral surface on the barrel body within the confines of the reel supporting surface thereof for engaging any of a number of reel bases of different widths and holding the same against lateral displacement in substantially the same peripheral location on the barrel.

5. In a fishing rod, a barrel having reel base holding means for attaching any of a number of reel bases of different widths on the barrel with their median lines centered on approximately the same longitudinal peripheral line of the barrel, said means including a roughened peripheral reel supporting surface on the barrel body engageable with the reel bases from beneath.

6. In a fishing rod, a barrel having reel base holding means for attaching any of a number of reel bases of different widths in substantially the same peripheral location on the barrel, said means including a peripheral reel supporting surface having a plurality of closely spaced longitudinal indentations on the barrel body by means of which said bases and said barrel engage each other within the confines of the barrel body, and also including a socket forming member cooperating with said barrel, said member and barrel forming in conjunction a reel base receiving socket extending laterally past the side edges of the several reel bases.

7. In a reel seat assembly for fishing rods, a barrel having an outer peripheral surface provided with closely spaced longitudinal grooves for supporting a reel base, a reel base overlying said surface, and cooperating clamping means, said base having longitudinal portions formed to interengage within the grooves of said barrel surface to prevent lateral shifting of the base when clamped.

8. In a reel seat assembly for fishing rods, a barrel having an outer peripheral surface for receiving a reel base, and a reel base overlying said surface, said barrel and base formed to interengage within the confines of said barrel surface to prevent lateral shifting of the base, said base having sharpened side edges and said barrel having longitudinal grooves receiving the inner corners only of said side edges.

9. In a reel seat assembly for fishing rods, a barrel having reel base holding means for attaching any of a number of reel bases of different widths in substantially the same peripheral location on the barrel, said means including a peripheral surface on the barrel having a lateral dimension approximating that of the widest base and presenting a multiplicity of fine closely associated longitudinal grooves within the confines of the barrel body.

10. In a fishing rod, a barrel and a surrounding sleeve-like element forming in conjunction a curved socket for receiving the ends of reel bases of different widths, said barrel having a roughened surface within said socket adapted to en-

gage from beneath and grip each of the several reel bases, said socket being of a lateral dimension substantially greater than that of the widest base.

11. In a reel seat assembly for fishing rods, a barrel having an outer peripheral reel base supporting surface provided with closely spaced longitudinal surface indentations, and a reel base having a concave under surface of less radius than the barrel, the indentations of said barrel interengaging with said base within the confines of said supporting surface along the side margins of the base to prevent lateral displacement of the base.

12. A fishing rod provided with a reel seat having a socket forming means at one end of said seat and a frictional reel base supporting surface portion on the bottom of the socket formed thereby and means forming indentations within the outermost limits of the periphery of said surface portion, said surface portion and said indentation forming means being engageable frictionally with a reel base seated in said socket irrespective of variations in the width of said base.

13. A fishing rod provided with a reel seat having a socket forming means at one end of said seat and a frictional surface portion in said socket means on the bottom of the socket engageable frictionally with a reel base seated in the latter irrespective of variations in the width of said base, said frictional surface portion comprising a plurality of friction surfaces selectively engageable with said base.

14. In a reel seat assembly for fishing rods, a reel support including a barrel-like member having socket means engageable with one end of a reel base and clamping means engageable with the other end thereof, said socket means and said clamping means adapted to receive any of a number of reel bases of different widths centered approximately on a predetermined longitudinal peripheral line of said member, and means comprising series of closely set longitudinal grooves on said member at the respective sides of said last named line engageable with the side edge portions of reel bases of different widths to prevent lateral displacement thereof.

15. A reel seat structure for fishing rods adapted to receive and clamp reel bases of different sizes and shapes, said structure including a barrel having a partly cylindrical reel base seating portion adapted to receive in substantially the same peripheral location on the barrel reel bases of different width, said seating portion being provided with a plurality of recessed means to engage the inner and clear the outer side edge portions of arcuate reel base portions of different widths with their median lines in approximately the same location with respect to the barrel in order to prevent lateral shifting of the reel base relatively to said seating portion, and means cooperating with said seating portion for securing the reel base on said seating portion in engagement with said recessed means.

16. A reel seat structure for fishing rods adapted to receive and clamp reel bases of different sizes and shapes, said structure including a barrel having a partly cylindrical reel base seating portion provided with a plurality of fine longitudinal grooves in its outer surface in immediate adjacency to each other, certain of said grooves being located to receive the inner side edges of a reel base portion of predetermined width having a concave under surface of less radius than said seating portion, and others of said grooves being located to engage the inner side edges of similar bases occupying substantially the same location on the barrel but which are wider or narrower than the first mentioned base, and means for clamping the reel base on said seating portion.

17. In a reel seat assembly, a barrel, a member overlying the barrel and forming in conjunction with a portion of the periphery thereof a socket adapted to receive reel bases of different widths, said socket continuing laterally past the sides of any of said bases to provide clearance therefor, means substantially within the confines of the barrel surface for engaging any of said bases to prevent lateral movement thereof in said socket, and means for clamping the reel base in said socket and in pressure engagement with said base engaging means.

WILLIAM E. EDWARDS.