

REEL SEAT FOR FISHING

[Technical Field]

[0001]

The present invention relates to a reel seat for fishing.

[Background]

[0002]

Patent Literature 1 listed below discloses a reel seat for fishing that is very common conventional art and includes a reel seat body with a fixed hood, a movable hood (moving hood) that moves in the axial direction along the reel seat body, and an operating sleeve that moves the movable hood. The fishing reel includes: a reel stand that makes contact with the reel seat along the axial direction, and a reel foot that rises up from the reel stand; and the fishing reel is attached to and detached from the fishing rod by clamping the reel stand between the fixed hood and the movable hood and releasing it from them.

[Prior Art Documents]

[Patent Literatures]

[0003]

[Patent Literature 1] Japanese Unexamined Patent Application Publication No. 2000-270722

[Summary]

[Technical Problems]

[0004]

The conventional reel seat for fishing described above is configured to insert and fasten only the tip and rear ends (some 10 mm or less in length) of the reel stand with the fixed hood and the movable hood, such that about half the reel stand is exposed when the fishing reel is fastened to a fishing rod.

[0005]

Thus, the user's hand and fingers directly touch the exposed reel stand, and since the reel stand and the reel foot are frequently made of metal, fatigue and discomfort felt by the user in his/her hand and fingers is increased during the long hours of actual fishing.

Especially, when the user is targeting big fish with lures using large fishing rods and reels, since the lure action is also

big, if his/her hand and fingers keep touching the metal reel stand, the user feels a lot of fatigue and discomfort. Furthermore, when fishing in winter, the user feels more fatigue and discomfort as his/her hand and fingers become cold, touching the metal reel stand that gets cold.

[0006]

The present invention was made to solve the aforementioned problems, and an object thereof is to provide a reel seat for fishing that reduces fatigue and discomfort of the user by keeping his/her hand and fingers from touching the reel stand.

[Solution to Problems]

[0007]

In order to achieve the afore-mentioned object, the present invention is a reel seat for securing, in an up-locking manner, a reel stand of a fishing reel including the reel stand and a reel foot, the reel seat comprising: a tube-like reel seat body that is made of resin and includes a fixed hood and a hollow portion into which a rod is inserted; a movable hood that is made of resin and moves in the axial direction along the reel seat body; and an operating sleeve that is continuous with the movable hood and moves the movable hood in the axial direction when rotated in the circumferential direction; wherein when the reel stand is inserted into the fixed hood and the movable hood and secured, the fixed hood and the movable hood cover the reel stand up to the reel foot.

[0008]

In one embodiment, the movable hood has a front end extending toward the reel foot, and a front end face of the movable hood is sloped, in a side view, toward the front as it extends downward.

In another embodiment, the outer circumferential surface of the movable hood on the top portion side is flush with the outer circumferential surface of the reel seat body on the top portion side.

[0009]

In one embodiment, the operating sleeve has a female thread formed on its inner surface and is rotated and moved in the circumferential direction by means of screwing with a male thread formed on the reel seat body; and the axial length of the screwing portion at which the male thread and the female thread engage with

each other is less than a half of the sum of the axial lengths of the movable hood and the operating sleeve.

[0010]

In another embodiment, the depth to insert the reel stand into the fixed hood and the movable hood, respectively, is 25 mm to 35 mm.

[Advantageous Effects]

[0011]

According to the above-described reel seat for fishing of the present invention, when the reel stand is inserted into the fixed hood and the movable hood and secured, the fixed hood and the movable hood cover the reel stand up to the reel foot. In other words, the reel stand is not exposed, almost entirely covered by the fixed hood and the movable hood, so that fatigue and discomfort felt by the user during the long hours of use is reduced as his/her hand and fingers do not directly touch the reel stand.

[Brief Description of Drawings]

[0012]

[Fig. 1] Fig. 1 is a side view showing the structure of a reel seat for fishing according to an embodiment of the present invention.

[Fig. 2] Fig. 2 is a top view of the reel seat according to the embodiment.

[Fig. 3] Fig. 3 is a bottom view of the reel seat according to the embodiment.

[Fig. 4] Fig. 4 is a side view of a reel seat body according to the embodiment.

[Fig. 5] Fig. 5 is a sectional view cut along arrow V-V in Fig. 4.

[Fig. 6] Fig. 6 is a sectional view of a movable hood and an operating sleeve.

[Fig. 7] Fig. 7 is a front view of the movable hood.

[Fig. 8] Fig. 8 is a sectional view showing the structure of the reel seat for fishing according to the embodiment.

[Fig. 9] Fig. 9 is a side view of the reel seat for fishing according to the embodiment, gripped by a user.

[Description of Embodiments]

[0013]

Now, the structure of a reel seat for fishing according to an embodiment of the present invention will be described with reference to the drawings. In the embodiment, identical portions are marked with identical signs, and redundant explanations are omitted. The definitions of "top", "bottom", "right", "left", "front", and "rear" are as shown in Figs. 1 and 2 with the arrows. The rod-tip side is "front" and the rod-bottom side is "rear".

[0014]

As shown in Fig. 1, a reel seat 10 for fishing (hereinafter referred to as "reel seat 10") according to the present embodiment fastens a reel mounting portion R1 of a fishing reel R, and the reel mounting portion R1 includes a reel stand R2 and a reel foot R3 extended from the reel stand R2. The reel foot R3 is extended substantially perpendicular from the reel stand R2. Although fishing reels are differently sized, from small ones to big ones, the length of the reel stand R2 in the front-rear direction is in general (commonly) 60 mm to 80 mm. The reel seat 10 according to the present embodiment is intended for use in fastening a fishing reel R with a common reel stand R2 of a length of 60 mm to 80 mm.

[0015]

The reel seat 10 includes: a reel seat body 11 with a fixed hood 21; a movable hood 12; and an operating sleeve 13. The reel seat 10 is configured as an up-locking type in which the movable hood 12 is provided at the rear of the reel seat body 11, and with the movable hood 12 moved forward, the reel stand R2 is clamped and fastened between the movable hood 12 and the fixed hood 21. As shown in Fig. 1, when the reel stand R2 is fastened by the fixed hood 21 and the movable hood 12, the fixed hood 21 and the movable hood 12 cover the reel stand R2 almost entirely up to the reel foot R3. In other words, the reel stand R2 is not exposed, almost entirely covered by the fixed hood 21 and the movable hood 12.

[0016]

Figs. 2 and 3 show a top view and a bottom view, respectively, of the reel seat 10 according to the present embodiment.

Figs. 4 and 5 show the reel seat body 11 that is a tube-like resin member having the fixed hood 21 provided at its front and a hollow portion to insert a rod S. The reel seat body 11 includes the fixed hood 21, a front gripping portion 22, a middle tube 23, a guide groove 24, and a male thread 25. On the bottom side of the

reel seat body 11, a mounting seat 29 is formed along the axial direction for placing the reel stand R2.

[0017]

The fixed hood 21 is the portion into which the front part of the reel stand R2 is inserted. The fixed hood 21 swells downward from the front gripping portion 22 and is open toward the rear. The hollow portion of the fixed hood 21 gradually narrows as it extends toward the front. As shown in Fig. 5, the fixed hood 21 has side walls 26, 26 and a bottom wall 27. The side walls 26, 26 face each other and extend downward from the front gripping portion 22. The bottom wall 27 connects the bottom ends of the side walls 26, 26 and forms a convex downward curve. As shown in Fig. 4, the bottom wall 27 is sloped toward the bottom as it extends rearward. The fixed hood 21 has a rear end face 21a that is vertical or substantially vertical to the mounting seat 29. The depth to insert the front part of the reel stand R2 into the fixed hood 21 is 25 mm to 35 mm so that the front part of the reel stand R2 is covered almost entirely.

[0018]

As shown in Fig. 4, the front gripping portion 22 has a substantially cylindrical shape, and its outer circumference surface is the portion for the user to place his/her palm. The front gripping portion 22 has an outer diameter that is one size larger than that of the middle tube 23. The front gripping portion 22 is formed from the center of the reel seat body 11 to its front end. In a side view, a rear end face 22a of the front gripping portion 22 slopes toward the front as it extends downward.

[0019]

The guide groove 24 extends along the front-rear direction (axial direction) in both sides and the top portion of the middle tube 23. The guide groove 24 is the portion for a guide projection 33 of the movable hood 12, described below, to be fitted in. The male thread 25 is formed on the outer circumference surface of the rear part of the middle tube 23. The guide groove 24 also extends in the male thread 25 along the axial direction. At the rear end of the middle tube 23, a smooth portion 28 is formed with no male thread 25.

[0020]

Figs. 6 and 7 show the movable hood and the operating sleeve.

The movable hood 12 is a tube-like resin member formed with a hollow portion and has a top portion 31, a bottom portion 32, and a plurality of guide projections 33. The movable hood 12 is externally mounted on the middle tube 23 and is movable in the front-rear direction. The rear part of the reel stand R2 is clamped between the movable hood 12 and the mounting seat 29 of the reel seat body 11. The depth to insert the rear part of the reel stand R2 into the movable hood 12 is 25 mm to 35 mm so that the rear part of the reel stand R2 is covered almost entirely.

[0021]

The top portion 31 has a semicircular shape. The outer circumference surface of the top portion 31 has substantially the same shape as the outer circumference surface of the front gripping portion 22 and is flush with the outer circumference surface of the front gripping portion 22 along the circumferential direction. The bottom portion 32 has side walls 35, 35 and a bottom wall 36. The side walls 35, 35 continue from the bottom end of the top portion 31 and extend downward. The side walls 35, 35 are flat plate-like portions and sloped in a direction that they approach each other as they extend downward. The bottom wall 36 connects the bottom ends of the side walls 35, 35 and forms a convex downward curve. As shown in Fig. 6, the bottom wall 36 is sloped toward the bottom as it extends forward. In other words, the hollow portion formed of the movable hood 12 and the mounting seat 29 gradually narrows as it extends rearward. In a side view, a front end face 12a of the movable hood 12 is sloped toward the front as it extends downward. In other words, the angle θ between the axis center C and the end face 12a is 30° to 60° , and preferably 40° to 50° .

[0022]

The guide projections 33 are protruding portions that extend in the front-rear direction and are fitted into the guide groove 24 (see Fig. 4). As shown in Fig. 7, the guide projections 33 are formed at the top portion and both side portions at positions corresponding to the guide groove 24. The position and number of the guide groove 24 and the guide projection 33 may be determined as desired.

[0023]

As shown in Fig. 6, the operating sleeve 13 is a cylinder

member connected to the rear part of the movable hood 12 and may be formed of a resin or metal. The operating sleeve 13 is connected to the movable hood 12 by means of a fitting portion 41 and rotatable in the circumferential direction. On the inner circumference surface of the operating sleeve 13, a female thread 42 is formed entirely along the axial direction. The outer circumferential surface of the front end of the operating sleeve 13 has substantially the same diameter as that of the rear end of the movable hood 12. The operating sleeve 13 may be provided with a protrusion, a decorative ring or the like on its outer circumferential surface.

[0024]

As shown in Fig. 8, the reel seat body 11 is formed with the male thread 25 that screws into the female thread 42 formed on the inner surface of the movable hood 12, and the axial length of the male thread 25 is substantially the same as that of the female thread 42. The axial length of the screwing portion at which the male thread 25 and the female thread 42 engage with each other is less than a half of the sum of the axial length L1 of the movable hood 12 and the axial length L2 of the operating sleeve 13.

[0025]

Now, how the fishing reel R is fastened to the reel seat 10 of the present embodiment will be described. As shown in Fig. 8, with the front end of the reel stand R2 inserted into the fixed hood 21, the reel stand R2 is placed on the mounting seat 29 along the axial direction. Then, the operating sleeve 13 is rotated clockwise to move the movable hood 12 forward, and the reel stand R2 is clamped between the mounting seat 29, the fixed hood 21 and the movable hood 12 and fastened.

[0026]

As shown in Fig. 9, it is preferable that the front gripping portion 22 and the movable hood 12 face each other with a small gap provided therebetween, without touching each other, even when the operating sleeve 13 is tightened the most. In other words, the end face 22a of the front gripping portion 22 and the end face 12a of the movable hood 12 are sloped toward the front as they extend downward, and face each other in parallel with a gap between them. This prevents buckling of the reel seat body 11 and the movable hood 12, which is caused by over-tightening of the movable hood

12.

[0027]

On the other hand, the reel stand R2 is removed from the fixed hood 21 by rotating the operating sleeve 13 counterclockwise, which is opposite to the direction described above, to move the movable hood 12 to the rear.

Fig. 9 is a side view of the reel seat 10 of the present embodiment with the fishing reel R secured thereto, gripped by the user. Generally, the user grips the reel seat by placing the index and middle fingers at the bottom of the fixed hood 21, with the underside of the thumb placed on the top portion of the front gripping portion 22 and the ring finger placed along the outer circumference surface of the bottom portion 32 of the movable hood 12. In other words, the reel foot R3 is held between the middle finger and the ring finger, and the little finger is placed, continued from the ring finger, along the boundary between the movable hood 12 and the operating sleeve 13. This manner of gripping is only an example, and other manners are also possible.

[0028]

As shown in Fig. 9, the reel stand R2 is not exposed as it is almost entirely covered by the fixed hood 21 and the movable hood 12, up to the reel foot R3, so that the user's hand and fingers do not touch the reel stand R2 when he/she grips the reel seat 10. More specifically, the fixed hood 21 covers the entire front side of the reel stand R2, and the front end of the movable hood 12 extends toward the reel foot R3 and covers the entire rear side of the reel stand R2. This allows the reel stand R2 to be entirely covered by the fixed resin hood 21 and the movable resin hood 12, and the gap between the fixed hood 21 and the reel foot R3 and the gap between the movable hood 12 and the reel foot R3 are both reduced.

[0029]

In addition, since the reel seat 10 is made of resin, heat from the reel stand R2 is less likely to be transferred to the user's hand and fingers, and the weight of the reel seat is also reduced.

In the present embodiment, the bottom portion 32 of the movable hood 12 at its front extends toward the reel foot R3, and in a side view, the front end face 12a of the movable hood 12 is

sloped toward the front as it extends downward. This allows the reel stand R2 to be securely covered, and the gap between the reel foot R3 and the movable hood 12 is reduced further so that the gripping performance is enhanced. As shown in Fig. 9, since the end face 12a of the movable hood 12 is sloped, the user's finger (ring finger) is placed along the slope and along the bottom portion 32 of the movable hood 12. In other words, when the user grips the reel seat, his/her finger (ring finger) does not touch the front gripping portion 22. This improves the fit of the fingers and enhances the gripping performance further.

[0030]

As in the present embodiment, it is preferable that the outer circumferential surface of the movable hood 12 on the top portion 31 side is flush with the outer circumferential surface of the reel seat body 11 on the top portion (front gripping portion 22) side. This removes the stepped portion (portion stepped in the radially outward direction) between the movable hood 12 and the reel seat body 11, and the gripping performance is enhanced.

[0031]

As in the present embodiment, it is preferable that the axial length of the screwing portion is less than a half of the sum of the axial lengths of the movable hood 12 and the operating sleeve 13. This allows the user to securely fasten the fishing reel R and quickly release the movable hood 12 from the reel seat body 11, and the ease of attaching and detaching the fishing reel R is enhanced. Also, in the present embodiment, the front end face 12a of the movable hood 12 is sloped toward the front as it extends downward. This allows the movable hood 12 to be rotated in the circumferential direction when the movable hood 12 is released from the male thread 25, which allows for quick removal of the reel stand R2.

[0032]

The axial length L1 of the movable hood 12 is larger than the axial length L2 of the operating sleeve 13. This makes it less likely for the user's fingers to touch the operating sleeve 13 when, for example, he/she grips the reel foot R3 between the middle finger and the ring finger. This prevents the user's fingers from touching and turning the operating sleeve 13 and causing the fishing reel R to be loosened during actual fishing.

[0033]

The reel seat 10 according to the present invention is intended for use with a common fishing reel with a reel stand R2 of a length in the front-rear direction of 60 mm to 80 mm, and the depth to insert the reel stand into the fixed hood 21 and the movable hood 12, respectively, is 25 mm to 35 mm so that the reel stand R2 is not exposed with its front and rear almost entirely covered by the fixed hood 21 and the movable hood 12, up to the reel foot R3. When the present invention is used for a special fishing reel with a reel stand R2 having a length in the front-rear direction not in the range of 60 mm to 80 mm, the depth to insert the reel stand into the fixed hood 21 and the movable hood 12 may be changed as desired.

[Reference Signs List]

[0034]

10 reel seat

11 reel seat body

12 movable hood

12a end face

13 operating sleeve

R fishing reel

R1 reel mounting portion

R2 reel stand

R3 reel foot

Claims

1. A reel seat for fishing for securing, in an up-locking manner, a reel stand of a fishing reel including the reel stand and a reel foot, the reel seat comprising:

a tube-like reel seat body that is made of resin and includes a fixed hood and a hollow portion into which a rod is inserted;

a movable hood that is made of resin and moves in the axial direction along the reel seat body; and

an operating sleeve that is continuous with the movable hood and moves the movable hood in the axial direction when rotated in the circumferential direction;

wherein when the reel stand is inserted into the fixed hood and the movable hood and secured, the fixed hood and the movable hood cover the reel stand up to the reel foot.

2. The reel seat for fishing according to claim 1, wherein the movable hood has a front end extending toward the reel foot, and a front end face of the movable hood is sloped, in a side view, toward the front as it extends downward.

3. The reel seat for fishing according to claim 1 or 2, wherein the outer circumferential surface of the movable hood on the top portion side is flush with the outer circumferential surface of the reel seat body on the top portion side.

4. The reel seat for fishing according to claim 1 or 2, wherein the operating sleeve has a female thread formed on its inner surface and is rotated and moved in the circumferential direction by means of screwing with a male thread formed on the reel seat body; and the axial length of the screwing portion at which the male thread and the female thread engage with each other is less than a half of the sum of the axial lengths of the movable hood and the operating sleeve.

5. The reel seat for fishing according to claim 1 or 2, wherein the depth to insert the reel stand into the fixed hood and the movable hood, respectively, is 25 mm to 35 mm.