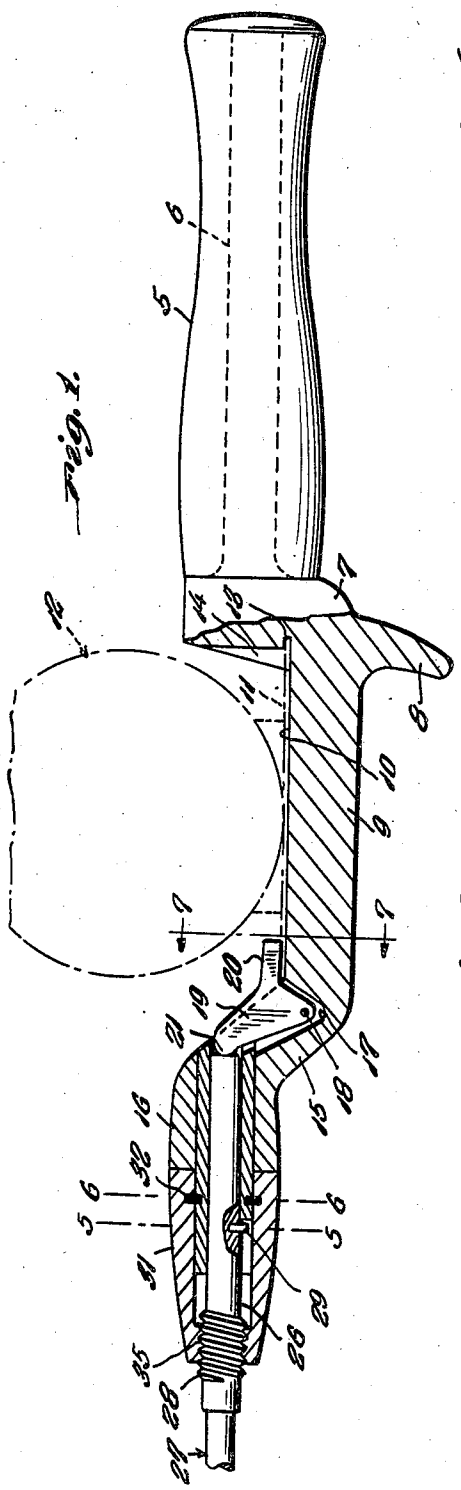
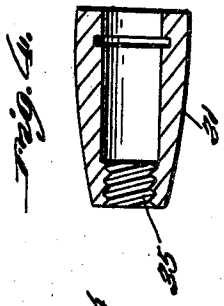
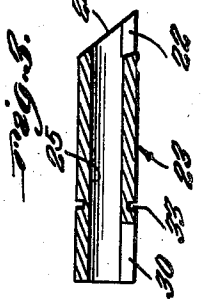
May 27, 1947. E. CAMBURN 2,421,240

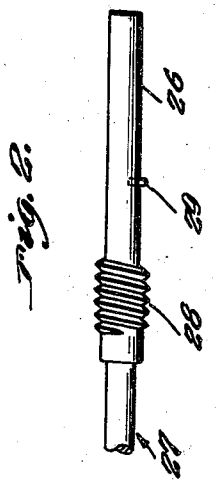
CASTING ROD

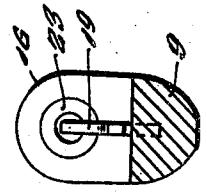
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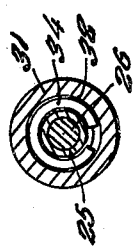














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UNITED STATES PATENT OFFICE

2,421,240

CASTING ROD

Elwyn Camburn, Logan, Utah

Application July 6, 1945, Serial No. 603,414

2 Claims. (Cl. 43—22)

1

My invention relates to improvements in casting rods, and particularly to rod tip and reel seat locking means incorporated therein whereby the securing of the rod tip to the rod effects positive locking of the reel seat on the rod, and the primary object of my invention is to provide a simple, rugged, and practical arrangement of the character indicated which is easily and quickly operable without lost motion.

Other important objects and advantages of my invention will be apparent from a reading of the following description taken in connection with the appended drawings, wherein for purposes of illustration I have shown a preferred embodiment of my invention.

In the drawings:

Figure 1 is a general longitudinal sectional and elevational view of an arrangement in accordance with the present invention showing the reel and reel seat in dotted lines.

Figure 2 is a fragmentary side elevational view of the butt end of the rod tip.

Figure 3 is a longitudinal vertical sectional view taken through the barrel.

Figure 4 is a longitudinal vertical sectional view taken through the floating nut.

Figure 5 is a transverse vertical sectional view taken through Figure 1 along the line 5—5.

Figure 6 is a transverse vertical sectional view taken through Figure 1 along the line 6—6.

Figure 7 is a transverse vertical sectional view taken through Figure 1 along the line 7—7 and looking toward the left in the direction of the arrows.

Referring in detail to the drawings, the numeral 5 generally designates the usual handle which may be supported by and fastened to a shank arranged axially therein and having at its forward end a vertically elongated block 7 which depends below the handle 5 and has at its lower extremity a depending forwardly projecting and curved finger grip 8. The block 7 and the finger grip 8 are formed integrally on the longitudinally elongated bar 9 whose flat top 10 forms the supporting surface for the seat 11 of the reel which is generally designated 12. The rear end of the reel seat 11 is arranged to seat in a transverse horizontal notch or slot 13 formed in the block 7 between laterally spaced triangular walls 14, whereby right hand longitudinal movement and any lateral movement of the reel seat relative to the bar 9 and block 7 are positively prevented.

The forward part of the bar 9 projects upwardly at an angle as indicated by the numeral 15, this part terminating in the forwardly projecting tubular portion 16 which is substantially axially aligned with the handle 5. A triangular depression 17 is formed in the upper part of the inclined portion 15 and in the lower part of this is pivoted on the transverse pivot 18 the locking lever 19 which has a rearwardly extending finger 20 arranged to overlie the front end of the reel seat 11 as indicated in Figure 1 of the drawings to positively hold the reel seat and hence the reel 12 in assembled relation to the rod. The main portion of the lever 19 is irregular triangular in shape, terminating at its upper end in a rounded nose 21 which projects through a longitudinal slot 22 formed in the lower wall of the barrel 23 which is plug-fitted in the bore of the portion 16. The rear end of the barrel 23 is beveled as indicated by the numeral 24, with the lower wall projecting rearwardly beyond the near wall of the recess 17, so that the sides of the slot 22 are arranged on opposite sides of the lever 19 in confining relation thereto.

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Slidably mounted in the bore 25 of the barrel 23 is the plain portion 26 of the rod tip which is generally designated 27, the forward end of the portion 26 having a suitable thread 28 formed thereon. A lug 29 depending from the portion 26 of the tip 27 works longitudinally in the slot 30 formed in the lower wall of the forward end of the barrel 23 whereby the tip is prevented from rotating relative to the said barrel, while being allowed longitudinal relative movement.

Rotatably mounted on the exterior of the barrel 23 is the floating nut 31, both the nut and the barrel being grooved as indicated by the numerals 32 and 33, respectively, to accommodate a locking ring 34 located in the groove to permit relative rotation of the nut and barrel while preventing longitudinal movement of the nut along the barrel. As indicated in Figure 1 of the drawings, the rear end of the nut 31 is in substantial abutting relation to the forward end of the portion 16 of the rod. The nut 31 is forwardly tapered and provided internally at its forward tip with internal threads 34 to accommodate the threads 28 on the rod tip 27.

With a reel 12 having its seat 11 in position on the platform 10 and engaged between the walls 14 and in the slot 13, a rod tip 27 is entered through the nut 31 and passed into the barrel 23 until the threads 28 engage the threads in the nut, whereupon the nut 31 may be rotated in a direction to feed the tip forcibly in a rearward direction so as to apply the rear end of the portion 26 of the rod tip to the nose 21 of

the lever 19 and thereby force the finger 20 down onto the forward part of the reel seat and thereby lock the reel in place and at the same time effect full connection and assembly of the rod tip with the rod. Reversing of the described actions releases the reel 12 and enables detachment of the rod tip 27.

Although I have shown and described herein the preferred embodiment of my invention, it is to be definitely understood that I do not wish to limit the application of my invention thereto except as may be required by the scope of the subjoined claims.

Having described the invention, what is claimed as new is:

1. A casting rod comprising a handle, a reel seat on the forward part of said handle, said reel seat including a recess to non-shiftably receive the rear end of the base of a reel resting on said reel seat, a tubular rod tip holder on the forward end of said reel seat in which the butt end of the rod tip is slidably positioned, a lever pivoted on said reel seat and having a locking projection overlying the forward part of said reel base and a nose for engagement by the rear extremity of the butt end of the rod tip, and operating means for gripping said rod tip and forcing the same rearwardly to operate said lever to lock the reel base on the seat while holding the rod tip in place.

2. A casting rod comprising a handle, a reel

seat on the forward part of said handle, said reel seat including a recess to non-shiftably receive the rear end of the base of a reel resting on said reel seat, a tubular rod tip holder on the forward end of said reel seat in which the butt end of the rod tip is slidably positioned, a lever pivoted on said reel seat and having a locking projection overlying the forward part of said reel base and a nose for engagement by the rear extremity of the butt end of the rod tip, and operating means for gripping said rod tip and forcing the same rearwardly to operate said lever to lock the reel base on the seat while holding the rod tip in place, said operating means comprising a tubular nut rotatably mounted on said tubular holder for rotary motion only and axially aligned with said tubular holder to pass the rod tip, said nut having internal threads engaging external threads formed on said rod tip, and means preventing rotation of said rod tip relative to said holder.

ELWYN CAMBURN.

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