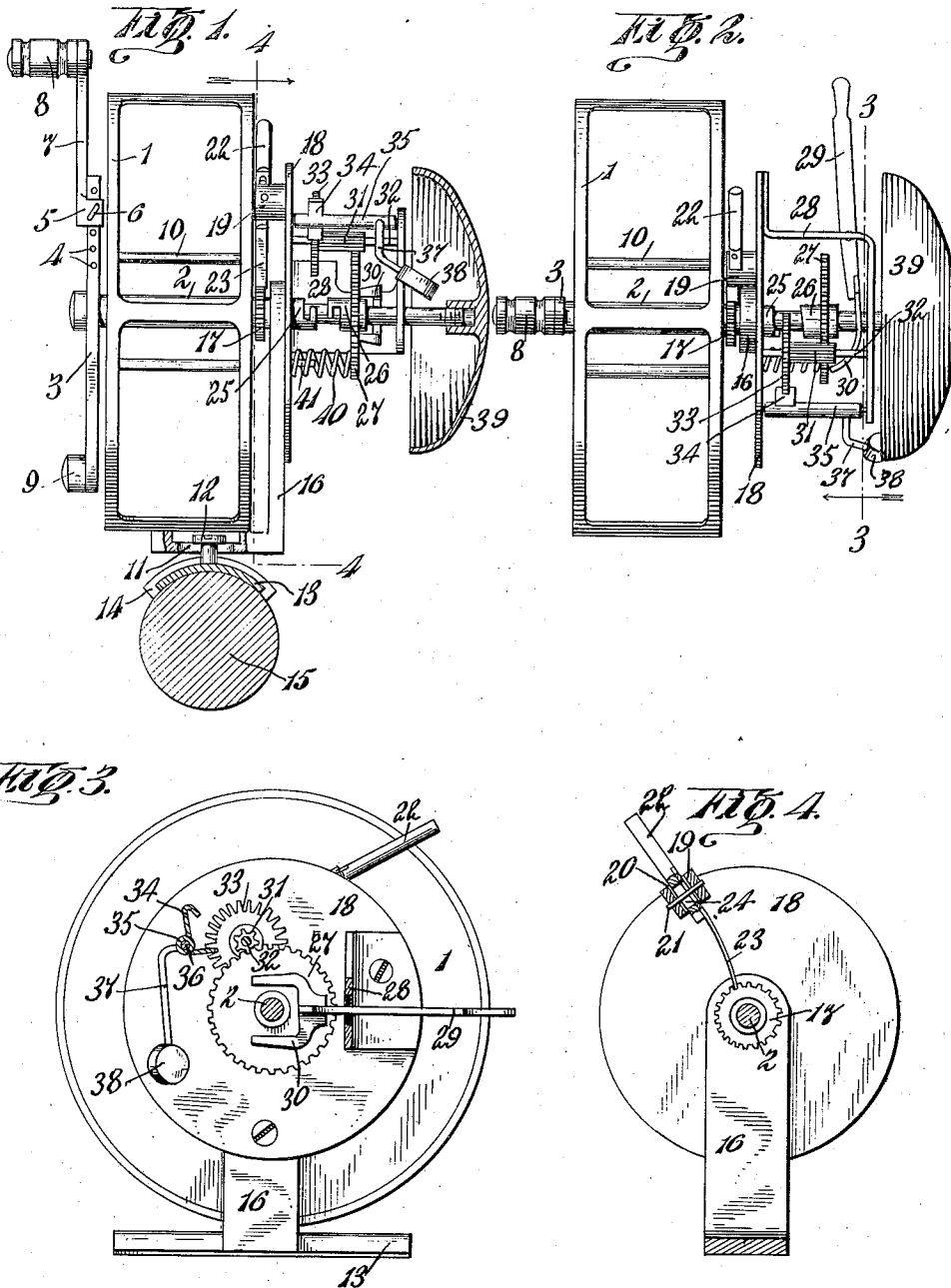


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PATENTED AUG. 7, 1906.

J. J. GRIGNON.
FISHING REEL.
APPLICATION FILED APR. 30, 1906.



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UNITED STATES PATENT OFFICE.

JOSEPH JEROME GRIGNON, OF STE. SCHOLASTIQUE, CANADA.

FISHING-REEL.

No. 827,972.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed April 30, 1906. Serial No. 314,356.

To all whom it may concern.

Be it known that I, JOSEPH JEROME GRIGNON, a subject of the King of Great Britain, residing at Ste. Scholastique, county of Two Mountains, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Fishing-Reels; and I, do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to fishing-reels.

The object of my invention is to provide a reel with means for giving an alarm when the line is being unwound therefrom.

A further object is to provide means for producing a spring tension on the line when it is being wound or unwound.

A further object is to provide an adjustable winding-handle and means for adjusting the reel-casing transversely of the rod; and my invention consists of the construction, combination, and arrangement of parts, as herein illustrated, described, and claimed.

In the accompanying drawings, forming part of this application, I have illustrated one form of embodiment of my invention, in which drawings similar reference characters designate corresponding parts, and in which—

Figure 1 is a front elevation of the reel-casing, showing in vertical section the alarm-bell. Fig. 2 is a top plan front elevation of the complete device. Fig. 3 is a vertical section on line 3 3 of Fig. 2 looking in the direction indicated by the arrow; and Fig. 4 is a vertical section on line 4 4 of Fig. 1 looking in the direction indicated by the arrow.

Referring to the drawings, 1 designates a housing carrying a shaft 2, having its ends projecting beyond the housing. Secured on one end of the shaft 2 is a bar 3, having at one end a series of openings 4 and having slidably disposed thereover a collar 5, through which is projected a pin 6, adapted to engage in the openings 4, so as to lock the collar in a plurality of positions on the bar. Integral with the collar 5 is a handle 7, having a crank portion 8. On the end of the bar 3 opposite to the openings 4 is a counterweight 9. By means of this construction the shaft 2 may be rotated to wind the reel 10, fixed on the shaft 2.

The housing 1 is provided with a slot 11 in its lower portion, adapted to receive the headed screw 12, carried on a guide-lip 13, adapted to engage under a yoke 14, carried

by the rod 15. By means of this construction the housing 1 may be adjusted transversely of the rod 15.

Carried by the housing 1 at one side is a pedestal 16, and adjacent the pedestal is secured a pinion 17 on the shaft 2. Secured to the outer face of the pedestal 16 is a plate 18, carrying adjacent its upper edge a block 19, having an opening 20 therein. Disposed through the walls of the block 19 and extending through the opening 20 is a guide-pin 21. Slidably disposed in the opening 20 is a plunger 22, on which is secured a spring 23. Provided in the plunger and spring is a slot 24, through which passes the pin 21, forming a guide for the plunger. The lower end of the spring 23 is adapted to engage the pinion 17, and by adjusting the plunger 22 upward or downward more or less tension may be produced on the shaft 2, or the plunger 22 may be raised until the spring 23 is disengaged from the pinion 17, thereby removing all tension except such as is produced by the movable parts hereinafter described.

Secured on the shaft 2 adjacent the plate 18 is a clutch member 25, and slidably disposed on the shaft 2 is a loosely-mounted clutch member 26, adapted to engage the clutch member 25 when the reel is being unwound. Carried by the clutch member 26 is a gear 27. Extending from the plate 18 is an angular bracket 28, on which is pivotally mounted a lever 29, having a lower bifurcated end 30, adapted to engage the gear 27 and force the clutch member 26 into engagement with the clutch member 25. The gear 27 is disposed in engagement with a pinion 31, secured on the arbor 32, which arbor is carried by the bracket 28 and the plate 18.

Carried by the pinion 31 is a ratchet-wheel 33 in engagement with an escapement 34, carried on a sleeve 35, which sleeve is rockably supported by an arbor 36, carried by the bracket 28 and the plate 18. Secured on the sleeve 35 is an arm 37, bearing on its free end a weight 38, adapted to strike against a bell 39. By throwing the clutch member 26 into engagement with the clutch member 25 when the reel is unwound rotation of the gear 27 is caused, thereby causing rotation of the pinion 31 and the ratchet-wheel 33, which contacts with the escapement 34 and causes the sleeve 35 to rock, throwing the weight 38 against the bell 39. The clutch members are normally maintained out of engagement by means of a coil-spring 40, one end of which

thrusts against the gear 27 and the opposite end of which thrusts against the plate 18, a suitable pin 41 being secured to the plate 18 to support the spring.

5 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a reel, the combination comprising a housing, a shaft carried by the housing and having its ends projecting therebeyond, a bar on the shaft provided with openings, a collar slidably disposed on the bar, a pin projecting through the collar and the openings, a reel on the shaft, means for applying a tension to the shaft, and means for giving an audible alarm when the shaft is rotated.

2. In a fishing-reel, the combination comprising a housing provided with a transverse slot, a headed screw disposed in the slot, a lip secured to the screw, a shaft carried by the housing and having its ends projecting therebeyond, means for applying a tension on the shaft, and means for giving an audible alarm when the shaft is rotated.

3. In a fishing-reel, the combination comprising a housing, a shaft carried by the housing, a pinion on the shaft, a pedestal on the housing, a slotted block supported by the pedestal, a plunger disposed through the block, a spring on the plunger adapted to engage the pinion, a pin disposed through the block and through a slot provided in the plunger and the spring, and means for giving an audible alarm when the shaft is rotated.

4. In a fishing-reel, the combination com-

prising a housing, a shaft carried by the housing, means for applying a tension on the shaft, a clutch member secured on the shaft, a corresponding clutch member loosely mounted on the shaft, means for causing engagement of the clutch members, a gear on the second clutch member, a pinion in mesh with the gear, a ratchet carried by the pinion, an escapement in engagement with the ratchet, a sleeve adapted to support the escapement, a weighted arm carried by the sleeve, and a bell fixed on the shaft.

5. In a fishing-reel, the combination comprising a housing, a shaft carried by the housing, means for applying a tension on the shaft, a clutch member secured on the shaft, a corresponding clutch member loosely mounted on the shaft, a spring adapted to normally maintain said clutch members out of engagement, a pin adapted to support the spring, means for causing engagement of the clutch members, a gear on the second clutch member, a pinion in mesh with the gear, a ratchet carried by the pinion, an escapement in engagement with the ratchet, a sleeve adapted to support the escapement, a weighted arm carried by the sleeve, and a bell fixed on the shaft.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JOSEPH JEROME GRIGNON.

Witnesses:

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