

T. WINANS & T. D. WHISTLER.

FISHING ROD REEL.

No. 175,227.

Patented March 21, 1876.

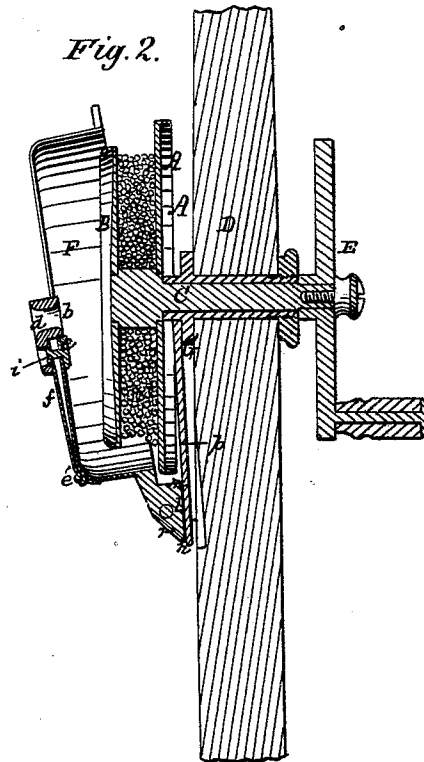
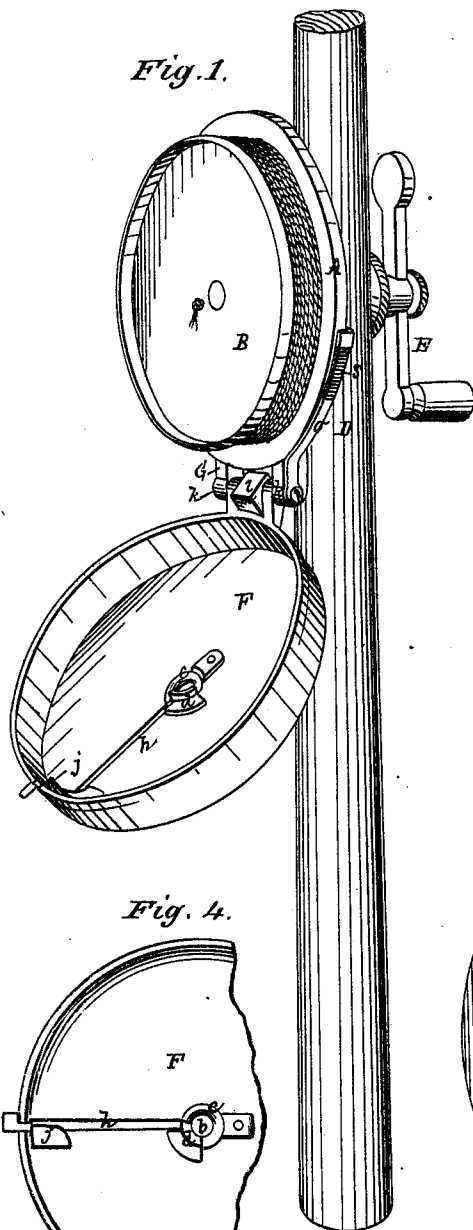


Fig. 3.

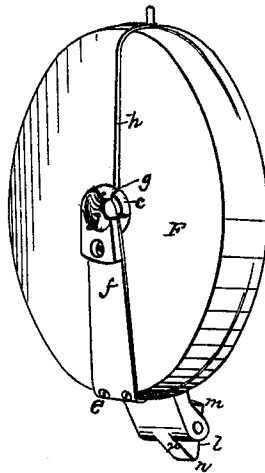
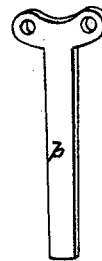


Fig. 5.



Witnesses:

Will A. Dick
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Inventors:

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UNITED STATES PATENT OFFICE

THOMAS WINANS AND THOMAS D. WHISTLER, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN FISHING-ROD REELS.

Specification forming part of Letters Patent No. **175,227**, dated March 21, 1876; application filed March 1, 1876.

To all whom it may concern:

Be it known that we, THOMAS WINANS and THOMAS DELANO WHISTLER, both of Baltimore, Maryland, have invented certain new and useful Improvements in Fishing-Reels, of which the following is a specification:

Our invention consists of certain improvements on a fishing-reel of the kind shown and described in our Letters Patent No. 161,314, dated March 23, 1875.

We have improved and simplified the construction of the sectional guide eye or ring by attaching one section to the cover and the other section to an arm or support, which is adapted to move to and from the face of the cover, this movable section when the cover is not closed upon the reel, being held normally away from the fixed section, so as to leave a line-passage, in communication with the line-slot that is formed in the cover, and extends from the guide-ring to the periphery of said cover. Within the cover we provide a deflecting plate or shield, arranged to cover the line-slot to such an extent as to prevent the line, when running out rapidly, from catching in the slot. We also combine with the cover a spring which acts to hold the cover open when the latter is thrown back from the reel; and to normally hold the cover nearly but not quite closed against the reel. It thus holds the cover with a yielding pressure, which will permit the cover to be pressed up by the hand against the reel, but will cause it when released from hand pressure to return to the aforesaid normal position. We also combine with the reel a spring-brake which may be pressed against the reel, to retard or check its rotation, and which interposes as a protection between the thumb and the rotating reel.

The nature of our improvements, and the manner in which they are to be carried into effect, will be understood by reference to the accompanying drawing, in which—

Figure 1 is a perspective view of our improved reel with the cover thrown back. Fig. 2 is a transverse vertical central section of the same, with the cover occupying what we have termed its normal position. Fig. 3 is a perspective view of the cover detached. Fig. 4 is a plan of a portion of the cover from the

rear. Fig. 5 is a view of the cover-holding spring.

A B are the two reel-disks. C is the central shaft; D, the pole; E, the crank-handle, and F the hinged cover.

The general arrangement of these parts is similar to that described in our above-recited Letters Patent.

The guide-eye *b*, in this instance, however, is formed of a sectional ring, of which one section, *c*, is fixed to the cover. The other section, *d*, is attached to a spring arm or support, *f*, which is attached to the cover at *e*, and tends to stand off from the cover, as shown in Fig. 2, and thus raise the movable ring-section *d* away from the fixed section. When the parts are in this position there exists in the ring a slanting passage, *g*, communicating with the line-slot *h* in the cover. The line from the reel in this way, viz., through the line-slot *h* and passage *g*, can be caused to enter the eye. When thus entered, the passage *g* can be closed by pressing with the thumb on the spring-strip *f*, which will have the effect of closing the movable section upon the fixed section. The fixed ring-section *c* extends through and projects from the face and rear of the cover. The movable section is of equal length and plays through the cover. Its outward movement is limited by the stop-pin *i* that extends through the spring-support *f* and enters and is fastened to the cover. The slit or joint between the two sections at the point in line with the line-slot is slanting, so that when the movable section moves outwardly there will be the line-passage *g*, before mentioned. On the inside of the cover, and along the line of that portion of the slot *h* formed in the periphery of the cover, we place a deflector, *j*, which may extend also for a short distance along the radial portion of the slot, as shown. When the line runs out rapidly, as in making a cast, it is by centrifugal action thrown off against the cylindrical part of the cover and is liable to catch in the line-slot. To prevent this the deflector *j* is provided. The cover is hinged at *k* to the stationary arm G of the reel. The knuckle of the cover at this point is formed with a flat face, *l*, an inner shoulder, *m*, and an outer projection, *n*.

Between the pole and reel and fixed to the stationary arm or plate G of the reel, is a plate-spring, *p*, which normally bears against the flat face *l* of the knuckle of the cover. When the parts are thus placed the cover occupies the position shown in Fig. 2, being turned slightly away from the reel, which is the position it should occupy after the cast has been made and the line has been permitted to disengage itself from the guide-eye. To close the cover the thumb is pressed against it. Owing to the arrangement of the ring-section support *f*, the thumb in closing the cover naturally presses on the support, and thus the pressure of the thumb has the double effect of closing the cover upon the reel, and of closing the guide-ring. The spring *p* during this movement of the cover yields, being pressed back by the shoulder *m*. The moment pressure is released, however, the spring *p* returns the cover to its normal position. When the cover is turned back the beak or projection *n* depresses the spring until the point or apex of the projection passes the center, when the spring being now free to act, throws the cover entirely back, and rests with its face in contact with the inclined surface *r* of the beak, thus holding the cover back. The brake hereinbefore alluded to is at once a brake and a thumb-piece or stall, and consists of a spring-metal strip, *o*, fast at one end to stationary arm G and extending out over the periphery of the inner and larger reel-disk A. By pressing on this brake, the rotation of the reel can be readily checked without danger of burning or chafing the thumb. The spring is wrapped at *s* with fishing, or other line, making a surface which is easily renewed when worn out, and at the same time prevents any abrasion of the reel-

disk which would result by contact with the metal spring.

Having described our invention, what we claim, and desire to secure by Letters Patent, is as follows:

1. The guide eye or ring formed of two sections, the one fixed to the cover, the other attached to a spring arm or support, carried by, but movable to and from, the cover, substantially as and for the purposes set forth.

2. The reel-cover and line-slot therein, in combination with the sectional guide-ring, formed of a fixed section and a movable section, whose outward movement opens a passage in line with the line-slot in the cover, substantially as set forth.

3. In combination with the reel-cover and knuckle thereon, the cover-holding spring arranged to operate in connection with said cover, substantially as set forth, to hold the cover either against closing upon the reel or against receding too far therefrom, and at the same time, when the cover is thrown back, to hold the same in that position.

4. In combination with the cover and line-slot therein, as described, the deflecting shield or plate, substantially as and for the purposes set forth.

5. The combined spring-brake and thumb-piece, applied to and arranged to operate with the inner reel-disk, substantially as set forth.

In testimony whereof we have hereunto signed our names this 27th day of January A. D. 1876.

THOMAS WINANS.
THOMAS D. WHISTLER.

Witnesses:

C. A. WAGNER,
GEO. WORTHINGTON.