(No Model.)

E. C. VOM HOFE.

FISHING REEL.

No. 271,166. Patented Jan. 23, 1883.

Fig. 1

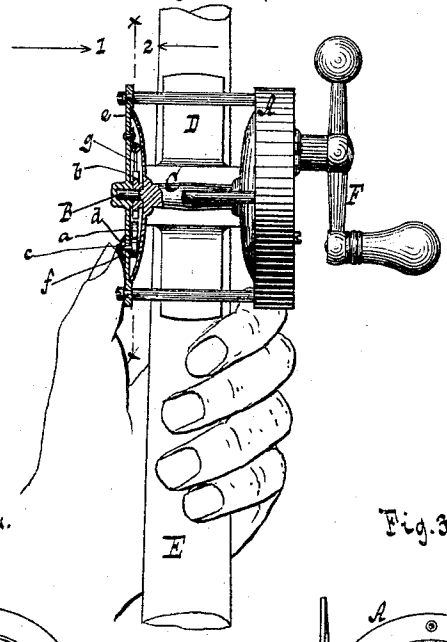


Fig. 2.

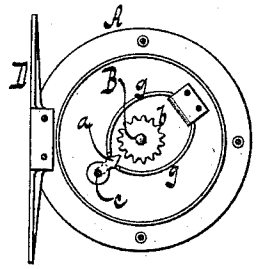


Fig. 3.

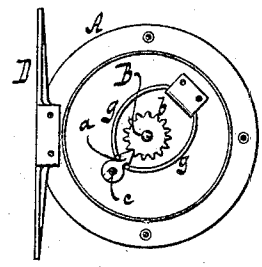


Fig. 4

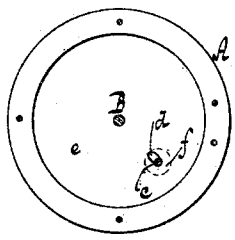
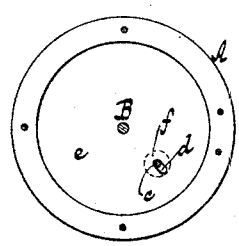


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD C. VOM HOFE, OF BROOKLYN, NEW YORK.

FISHING-REEL.

SPECIFICATION forming part of Letters Patent No. 271,166, dated January 23, 1883.

Application filed October 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWARD C. VOM HOFE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Fishing-Reels, of which the following is a specification.

This invention consists in the combination, with the frame which forms the bearings for the axle of the reel, of a handle for turning the reel, mounted on one side of the frame, and a ratchet-wheel and a movable click mounted on the opposite side of the frame, so that the fisherman, while he is operating the reel with one hand, is enabled to control the position of the click with the thumb of the hand which holds the fishing-rod.

The invention also consists in the peculiar construction of the click and the springs which act on the same, so as to retain the click in position when it is in gear with the ratchet-wheel and also when it is thrown out of gear.

In the accompanying drawings, Figure 1 represents a sectional front view. Fig. 2 is a section in the plane *x x*, Fig. 1, looking in the direction of arrow 1, when the movable click is thrown out of gear. Fig. 3 is a similar section when the movable click is in gear. Fig. 4 is a section in the plane *x x*, Fig. 1, looking in the direction of arrow 2, when the movable click is out of gear. Fig. 5 is a similar section when the movable click is in gear.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates the frame which forms the bearings for the axle B of the reel C, which is provided with a flange, D, for securing it to the fishing-rod E.

The reel is operated by means of a handle, F, which is mounted on one side of the frame A. In the example shown in the drawings the handle is mounted on a separate shaft, which is geared together with the reel-shaft by a multiplying-gear; but said handle may be mounted directly on one end of the reel-shaft.

On the opposite end of the frame A is mounted a click, *a*, which can be made to engage with a ratchet-wheel, *b*, mounted on the reel-shaft. The click *a* is secured to a pin, *c*, which projects through a radial slot, *d*, in the head *e* of the frame, and is secured to a button, *f*, situated on the outside of the head *e*. This button is in such a position that it can be manipulated by the thumb of the hand which holds the fishing-rod, and by moving said button in a radial direction the click is thrown in or out of gear with the ratchet-wheel *b*. By this arrangement the fisherman is enabled to bring the click in or out of its working position with one hand while he operates the handle of the reel with his other hand—or, in other words, he can throw the "ratchet-drag" in or out of operation while he retains control of the reel.

The click *a* swings on its pin *c* and is subjected to the action of two springs, *g g*, similar to the click shown in my Patent No. 219,328, dated September 2, 1879; but the head of my new click is arrow-shaped, as shown in Figs. 2 and 3, and, furthermore, the pin which supports the click is mounted in the sliding button *f*, as above stated. When the button is moved inward to the position shown in Figs. 3 and 5 the springs *g g* catch behind the head of the click, Fig. 3, and retain the click in gear with the ratchet-wheel, the button being thereby prevented from moving out spontaneously; and when the button is moved out to the position shown in Figs. 2 and 4 the springs *g g* bear upon the inclined sides of the head of the click and retain the click out of gear with the ratchet-wheel *b*.

I do not claim broadly as my invention the combination of a ratchet-drag with a fishing-reel, such being well known.

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

1. The combination, substantially as hereinbefore described, of the frame which forms the bearings for the axle of the reel, the handle for turning the reel, mounted on one side of the frame, the ratchet-wheel and click mounted on the opposite side of the frame, and the button which carries the click and serves to throw the same in and out of gear with the ratchet-wheel, said button being so situated that it can be operated with the finger or thumb of one hand while the handle is operated with the other hand.

2. The combination, substantially as here-

inbefore described, of the click having an arrow-shaped head, the button which serves to move the click in and out of gear with the ratchet-wheel, and the springs which bear on the click and lock the same when in gear and also when out of gear with the ratchet-wheel.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

EDWARD C. VOM HOFE. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.