

(No Model.)

A. B. HENDRYX.
FISHING REEL.

No. 445,403.

Patented Jan. 27, 1891.

Fig. 1

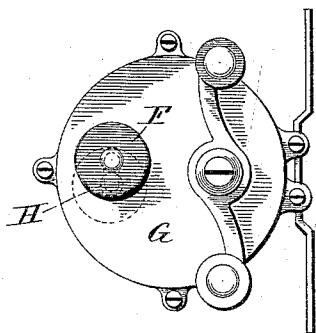


Fig. 2

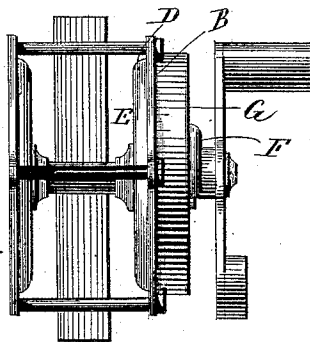


Fig. 3

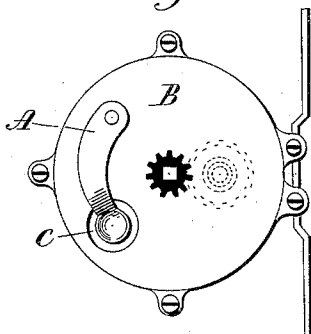


Fig. 4

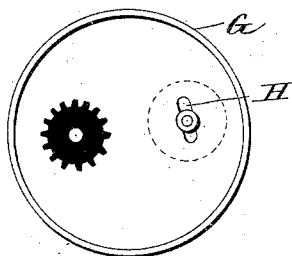


Fig. 5

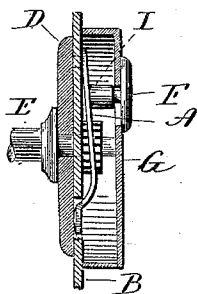


Fig. 6

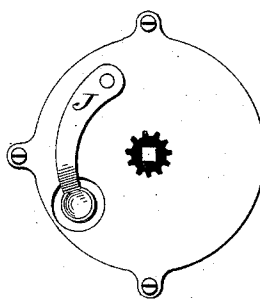
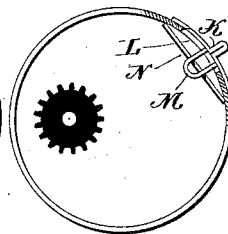


Fig. 7



Witnesses
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UNITED STATES PATENT OFFICE.

ANDREW B. HENDRYX, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
A. B. HENDRYX COMPANY, OF SAME PLACE.

FISHING-REEL.

SPECIFICATION forming part of Letters Patent No. 445,403, dated January 27, 1891.

Application filed September 1, 1890. Serial No. 363,601. (No model.)

To all whom it may concern:

Be it known that I, ANDREW B. HENDRYX, of New Haven, in the county of New Haven and State of Connecticut, have invented new
5 Improvements in Fishing-Reels; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same,
10 and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in side elevation of a reel, showing one form which a brake constructed in accordance with my invention may assume.
15 Fig. 2 is a view thereof in front elevation. Fig. 3 is a view of the device in side elevation with its cap removed. Fig. 4 is a detached view in inside elevation of the said cap. Fig. 5 is a view in central section, showing the
20 cap, the adjacent frame-plate and drum-flange, and the brake-arm and operating-button. Fig. 6 is a view in side elevation of the frame-plate and brake of another reel, and Fig. 7 is a detached view in inside elevation
25 of the cap thereof, which shows a different arrangement of the operating-button.

My invention relates to an improvement in reels for fishing-rods, the object being to provide them with brakes of simple construction
30 and convenient operation.

With these ends in view my invention consists in the combination, with the winding-drum of the reel, of a normally-retired brake and means for operating the same to bring it
35 into engagement with the said drum.

My invention further consists in the combination, with the winding-drum, the cap, and the adjacent frame-plate of the reel, of a spring brake-arm secured at one end to the
40 outer face of the said frame-plate and adapted at its other end to enter an opening formed therein and engage with the adjacent flange of the said drum, and an operating-button mounted in the said cap and arranged to operate the said brake-arm.
45

My invention further consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

50 As herein shown, the brake-arm A is made

from a flat piece of sheet metal in the general form of a crescent and bent so that when one of its ends has been riveted to the outer face of the frame-plate B of the reel its main portion will stand away from the face of the
55 said plate, which is provided with an opening C, through which the free end of the said arm engages with the outer face of the adjacent flange D of the skeleton winding-drum E, the said free end of the arm being thereto bent
60 inwardly and cupped, as shown. Normally the spring of the arm holds its free end out of contact with the said flange with which it is engaged for braking the drum by means of
an operating-button F, located upon the outer
65 face of the cap G, which is provided with an elongated slot H, through which the stem of the button passes, the said stem carrying a small collar I, which engages with the inner
70 face of the cap on opposite sides of the slot and holds the button in place under sufficient friction to cause it to be retained with its stem in any position in the slot, where it may be placed by the fingers of the angler. The said
75 button is located so that by moving it in one direction its stem or collar will force the brake-arm inward and press the free end thereof into engagement with the hub-flange. By moving the button in the opposite direction the arm is allowed to recover and spring away
80 from the flange, so that the drum is normally free.

In the modified construction shown by Figs. 6 and 7 of the drawings, the brake-arm J is constructed and arranged the same as shown
85 in the preceding figures of the drawings; but the operating-button K is located upon the edge instead of upon the face of the cap, the edge of which is thereto provided with an elongated slot L, in which a loop M of sheet
90 metal attached to the button plays, the said loop being arranged for the engagement of its inner edge with the flat outer face of the brake-arm. A piece of spring-wire N, passing transversely through the base of the loop,
95 engages with the adjacent surfaces of the edge of the cap and frictionally retains the button in its adjustments. The button itself consists in this case simply of a strip of heavy sheet metal bent to form a central rib and two ends
100

bowed to conform to the curve of the edge of the cap.

The operation of the above-described modified construction is the same in principle as that of the other forms of my device.

In both constructions the brake is normally retired and only brought into play when needed. Both constructions are also very simple and durable and not liable to get out of order. If desired, however, the operating-button may be arranged to keep the brake-arm normally engaged with the drum.

I do not claim, broadly, a fishing-reel having a frictional brake adapted to be adjustably applied to the spool, as such, I am aware, is not new.

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

In a reel for fishing-rods, the combination of the winding-drum, the cap, and the adjacent

frame-plate thereof, a spring-brake A, rigidly attached by one end to the outer face of said plate, the plate constructed with an opening through it onto the flange of the drum, the said brake bent outward from its rigid point of contact with the plate and so as to present an inclined surface upon its outside, its other end turned inward through said opening in the plate and so as to bear upon the flange of the drum, and a sliding button arranged in the cap and adapted to bear upon the inclined outer surface or back of the brake, all substantially as and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ANDREW B. HENDRYX.

Witnesses:

HARRY E. HENDRYX,
EDWARD N. PECK.