

(No Model.)

W. OHAVER & T. O'BANNON.

FISHING REEL.

No. 253,090.

Patented Jan. 31, 1882.

Fig. 1.

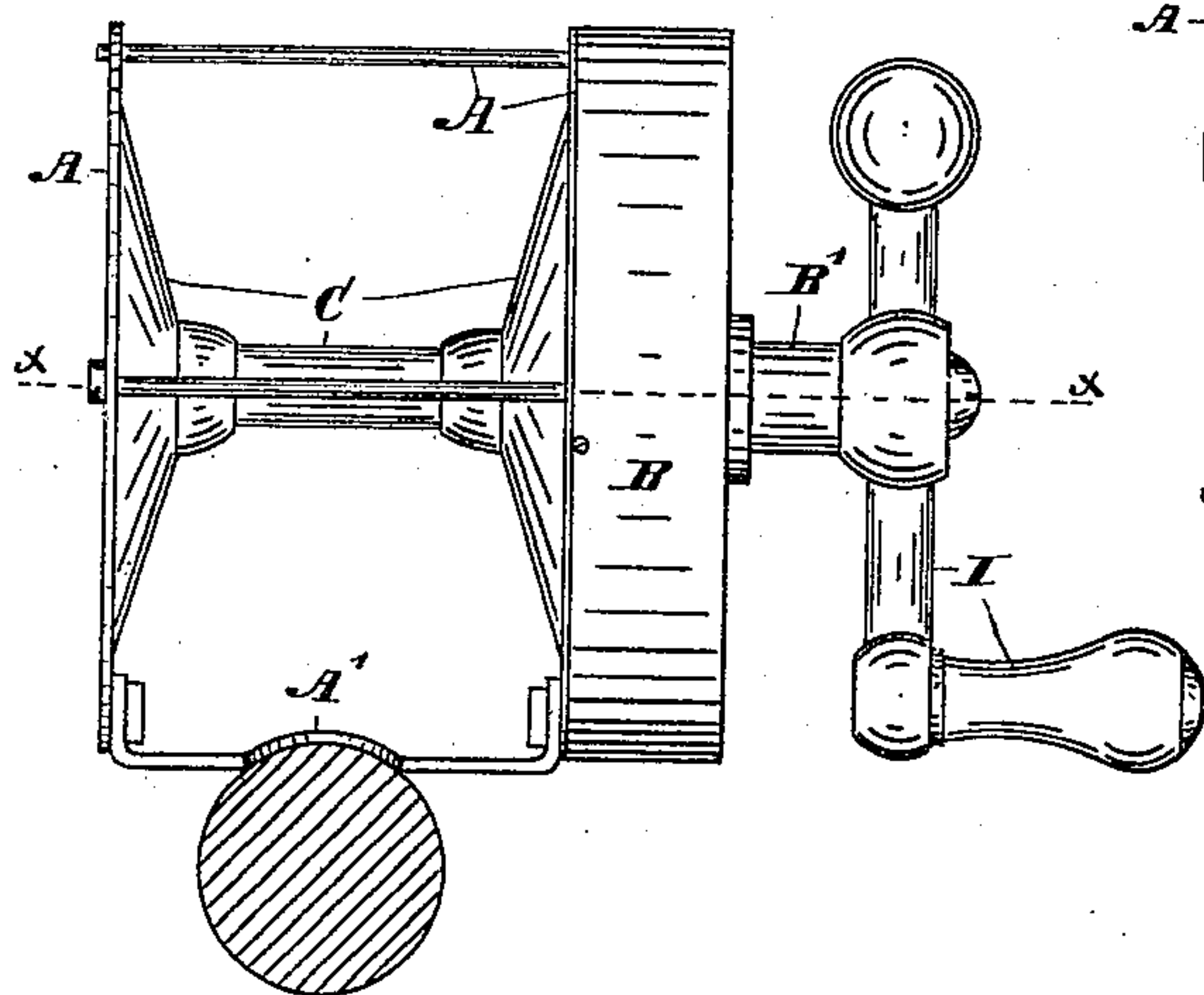


Fig. 2.

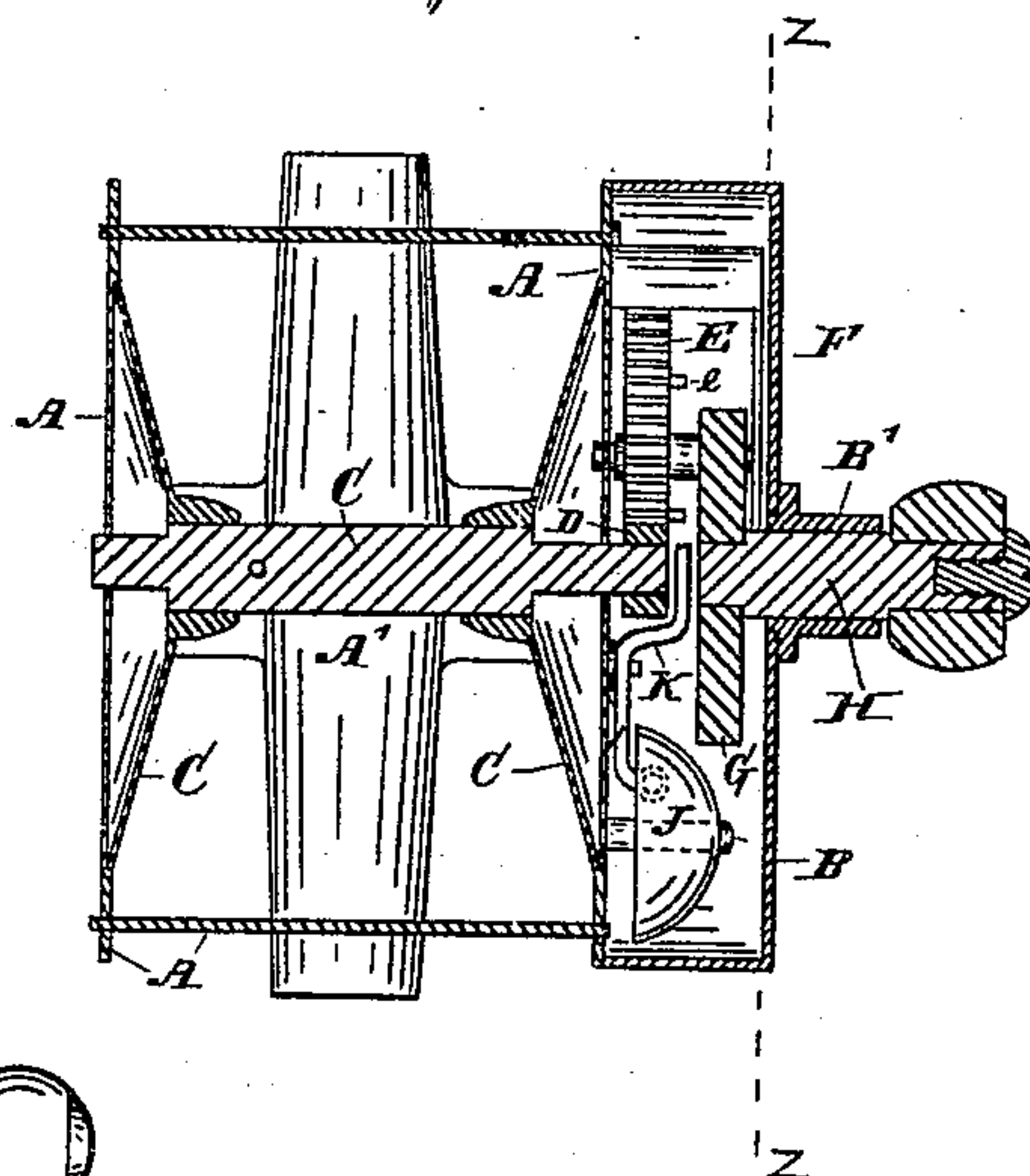


Fig. 3.

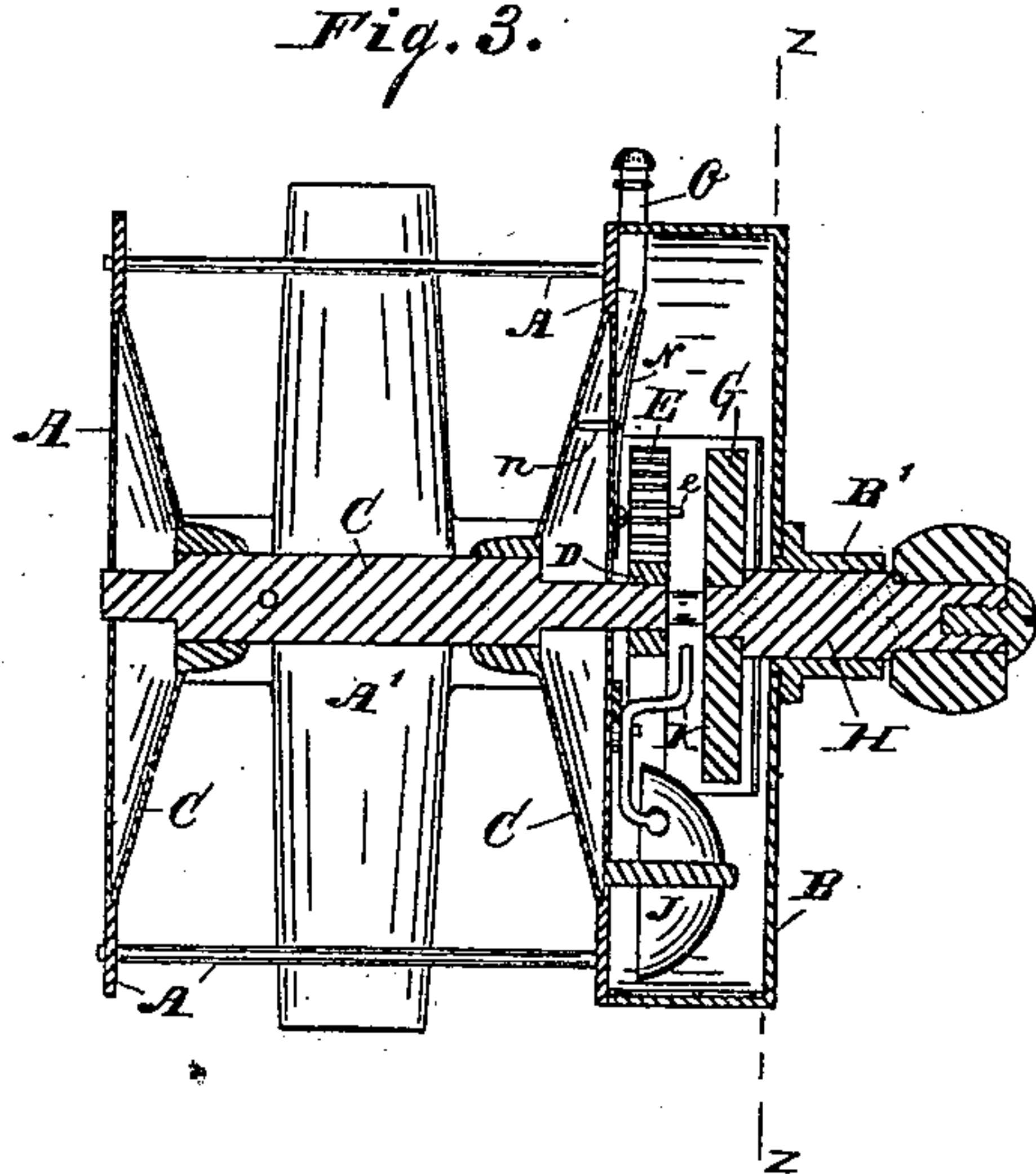
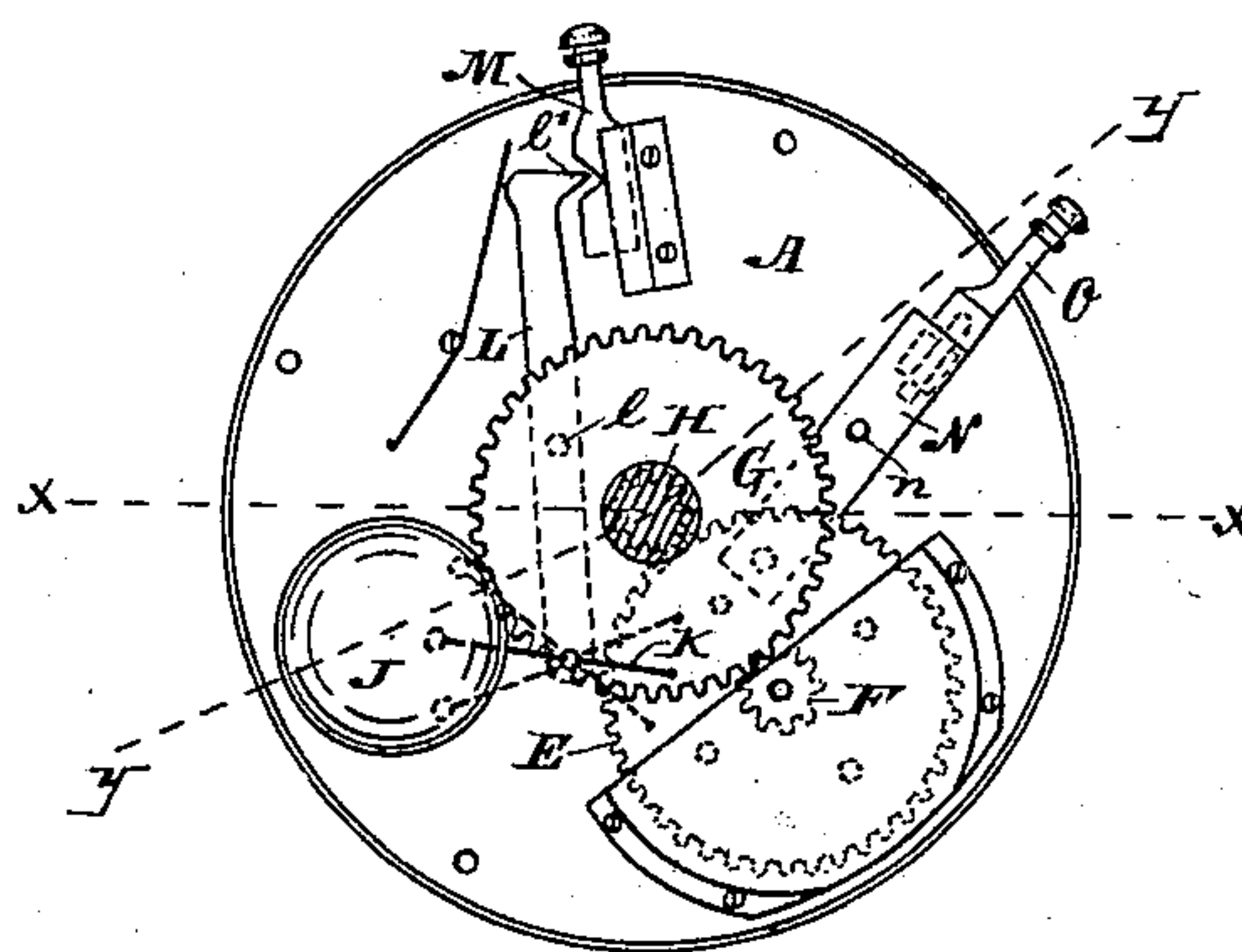


Fig. 4.



WITNESSES.

James B. Lizius.
R. P. Daggett.

INVENTORS.

Warren Ohaver, and
Taylor O'Bannon,
PER
C. Bradford
ATTORNEY.

UNITED STATES PATENT OFFICE.

WARREN OHAVER AND TAYLOR O'BANNON, OF INDIANAPOLIS, INDIANA,
ASSIGNORS TO THE AMERICAN REEL COMPANY, OF SAME PLACE.

FISHING-REEL.

SPECIFICATION forming part of Letters Patent No. 253,090, dated January 31, 1882.

Application filed November 14, 1881. (No model.)

To all whom it may concern:

Be it known that we, WARREN OHAVER and TAYLOR O'BANNON, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Fishing-Reels, of which the following is a specification.

Our said invention consists in a certain construction of the winding mechanism, and in the alarm of line-reels for fishermen's use, as will hereinafter be particularly set forth.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of our improved reel; Fig. 2, a horizontal section looking downwardly from the dotted line *xx*; Fig. 3, a section looking downwardly from the dotted line *yy*, and Fig. 4 a plan view of the mechanism as seen from the dotted line *zz*.

In said drawings, the portions marked A represent the stationary frame-work to the reel; B, the cap-plate which incloses the mechanism; C, the spool of the reel; D, a small gear-wheel on the end of the spool-shaft; E, a larger gear-wheel on a counter-shaft, meshing into the wheel D; F, another small gear-wheel on the same shaft with the wheel E; G, a larger gear-wheel on the inner end of the crank-shaft, meshing into the wheel F; H, the crank-shaft; I, the crank; J, an alarm-bell; K, the hammer thereto; L, a lever on which the bell-hammer is mounted; M, a device whereby said lever is operated; N, a spring containing a pin which acts as a brake, and O a sliding device whereby said brake is operated.

The reel-frame A and its bar A' for fastening the reel to the fishing-pole are substantially like the corresponding parts in ordinary reels.

The cap B entirely incloses the machinery employed in this invention, and is rigidly attached to the frame A, and is formed, as shown, substantially water-tight. It has a sleeve, B', attached thereto, which serves as the sole bearing for the crank-shaft, thereby enabling said shaft to be in line with the spool-shaft without being in any way connected therewith.

The spool C is not in itself materially different from other spools for like purposes.

The wheels D, E, F, and G constitute a double set of spur-gears, the effect of which is to greatly multiply the speed of the spool over that of the crank, as will be readily understood by reference to Fig. 2. The value of this great rate of speed is principally when catching game fish—as, for instance, the black bass—which, if they can get a slack line, are apt to jump and break it. As such fish can swim much faster than the line can be wound with a common reel, by running toward the fisherman they have often been able to accomplish this, and thus escape. With the use of our improved multiplying-reel, however, this is almost or quite impossible.

The operation of the crank-shaft H and crank I will be readily understood by reference to the drawings.

The bell J is a small stationary bell, and is arranged so that the fisherman may set his line and leave it in such condition that a fish upon seizing the hook shall sound an alarm, thereby enabling him to attend to several lines at once, as a close watch of the same is by the use of this device rendered unnecessary.

The bell hammer K is mounted upon a lever, L, which is pivoted at *l*. This lever is thrown back and forth by the sliding device M. When this device is pushed in, as shown in the drawings, the point *l'* thereon enters into a notch in said device, which leaves the bell-hammer relatively nearer the center of the bell. When the device is pulled out, however, it throws the bell hammer and its shank back toward the wheel E. This wheel has studs *e* on its side, and the rear end of the shank of the bell-hammer, when in the position last described, comes in contact therewith, thus vibrating said shank and causing the hammer to strike and ring the bell, thus sounding an alarm. As the wheels must always be revolved when the line is pulled out, the pulling of a fish upon the line must necessarily sound the alarm.

The spring N is fastened to the end plate of the frame A. A pin or other projection, *n*, on this spring passes through a hole in said plate, and when not forced away rests against the end of the spool C, thus serving as a brake to retard the progress of said spool. The sliding wedge-shaped device O is located so as to pass

under this spring, as shown most plainly in Fig. 3, and when pushed in raises it so that the pin *n* will not touch the end of the spool, thus allowing the latter to turn without impediment.

5 When, however, this device is pulled out the spring forces the pin against the spool, which is thus put in operation as a brake.

Having thus fully described our said invention, what we claim as new, and desire to secure by Letters Patent, is—

10 1. The combination, in a fishing - reel, with the gear-wheels thereof, one of which is mounted on the spool-shaft and another on the crank-shaft without any direct connection between
15 them, of a crank and a crank-shaft, the latter of which is mounted in a single bearing directly in line with the bearings of the spool-

shaft, but entirely separated therefrom, substantially as shown and specified.

2. The combination, in a fishing-reel, with 20 a bell, of a bell-hammer, a lever which is adapted to throw said hammer into or out of operative position, a wheel, and studs on said wheel, which operate to vibrate the bell-hammer when in operative position, and thereby 25 ring the bell, all substantially as set forth.

In witness whereof we have hereunto set our hands and seals at Indianapolis, Indiana, this 11th day of November, A. D. 1881.

WARREN OHAYER. [L. S.]

TAYLOR O'BANNON. [L. S.]

In presence of—

C. BRADFORD,

C. L. THURBER.