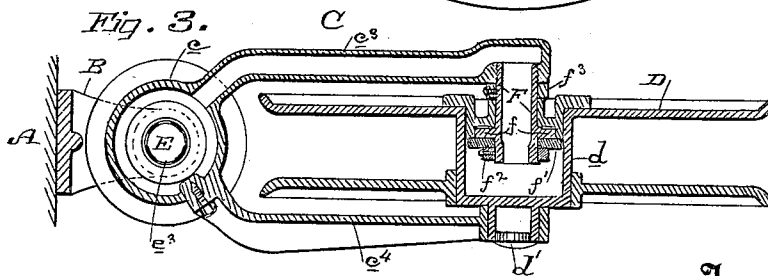
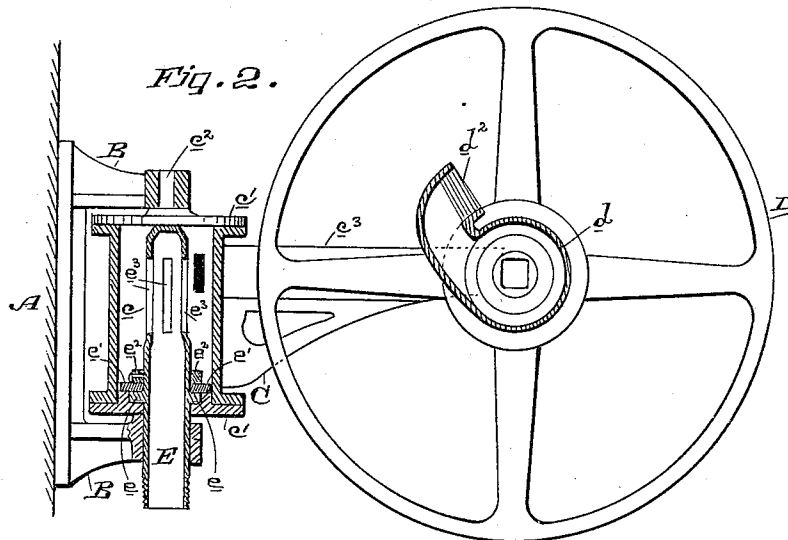
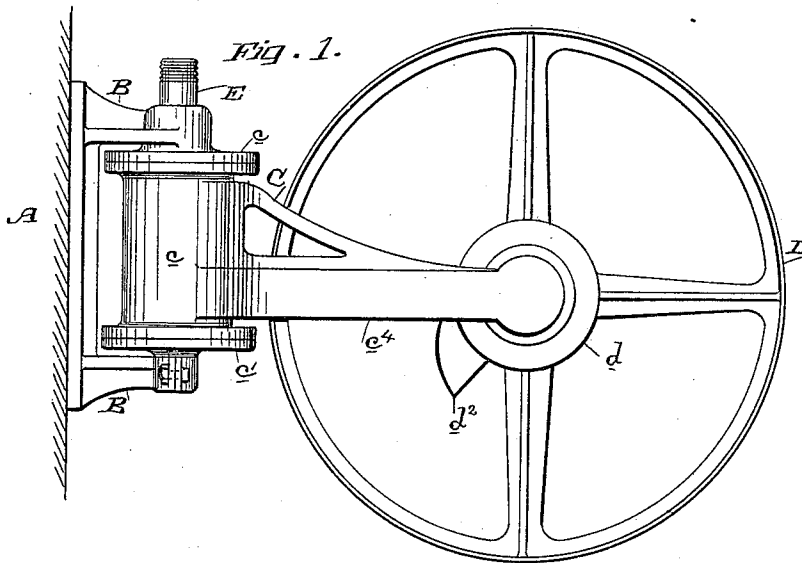


(No Model.)

W. F. BOWERS.
SWINGING HOSE REEL.

No. 449,033.

Patented Mar. 24, 1891.



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UNITED STATES PATENT OFFICE.

WILLIAM F. BOWERS, OF SAN FRANCISCO, CALIFORNIA.

SWINGING HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 449,033, dated March 24, 1891.

Application filed March 27, 1890. Serial No. 345,582. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BOWERS, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Swinging Hose-Reels; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of hose-reels which are secured to the wall and are so mounted as to swing, suitable water-joints being provided to allow the uninterrupted flow of the water, no matter to what position the reel may be turned.

My invention consists in the novel constructions hereinafter fully described, and specifically pointed out in the claims.

The object of my invention is to provide a simple and effective hose-reel of this class.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a side elevation of my hose-reel. Fig. 2 is a section of the same, taken on a plane at right angles to the axis of the reel. Fig. 3 is a section taken in the plane of said axis.

A is the wall to which the reel is to be attached. To this is secured the bearing B, the projecting arms of which receive the bracket-head.

C represents the bracket generally, and in the outer end of this is journaled the reel D. The bracket has a hollow head *c* with end flanges, to which are bolted the cap-plates *c'*. From one of these projects the gudgeon *c²*, which forms the pivot in one of the bearing-arms B. The other pivot is formed by the stationary inlet water-pipe E, as will be presently explained. With the head *c* is formed or connected one of the arms *c³* of the bracket. This arm is hollow, as shown in Fig. 3, and its upper end communicates with the interior of the hollow head *c*, as shown in said figure and also in Fig. 2. The other bracket-arm *c⁴* may or may not be integral with the other parts. I have here shown it, Fig. 3, as a separate piece and secured to the head by a screw.

The hub *d* of the reel is made hollow, Fig. 3, and it is journaled in the bracket-arms by means of a gudgeon *d'* on one side, fitted in the arm *c⁴*, and a water-pipe F on the other side,

screwed into and communicating with the hollow arm *c³* and forming the journal on which the hub turns. Now it will be seen that the bracket is pivoted in the bearing and the reel is journaled in the bracket. The bracket can therefore swing from side to side to accommodate the direction in which the hose is being pulled off the reel. The water enters through pipe E into hollow head *c*, thence through hollow arm *c³* into hub *d*, and from said hub it enters the hose, as will be presently described.

In order to make the several joints watertight, I employ a construction substantially similar to that shown by and secured to me in Letters Patent of the United States No. 421,657, dated February 18, 1890, and to which reference may be made for a better understanding, if found necessary, though I have herein illustrated and will describe it sufficiently. There are two of these joints in my reel, one in the bracket-head and one in the reel-hub. The one in the head is shown plainly in Fig. 2. As before stated, the water-pipe E forms the pivotal connection on one side of the bracket-head. The latter turns on the pipe, which is a stationary one, passing through the bearing-arm and entering the hollow head. This pipe is connected with the water-supply pipe. The interior of the hollow head at that end is double shouldered, and against the first shoulder bears a collar *e*, fixed to pipe E, and against the second shoulder bears a washer *e'* of larger diameter than the collar and backed by a second collar *e²* on the pipe. This forms the tight joint. In my former patent I showed a collar on the pipe outside the hollow cylinder to prevent its movement in that direction. In the present construction this outer collar is dispensed with, and instead I extend pipe E into the hollow head far enough to have its inner end abut against the opposite end of said head, so that the pipe is thereby firmly held. In the pipe E, within the hollow head, I make openings *e³*, whereby the water can pass into the head.

The joint of the reel-hub is identical with that shown in my former patent, and consists, as shown in Fig. 3, of the stationary pipe F, through which the water passes from the hollow bracket-arm *c³* into the reel-hub,

the inner collars f and f^2 and intervening washer f' , and the outer collar f^3 .

The hub d of the reel has formed or cast with it the projecting outlet portion d^2 , Figs. 1 and 2, the end of which is adapted to receive the hose-coupling. Thus the water is supplied to the hose.

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

1. In a swinging hose-reel, the fixed bearing B, in combination with the reel-carrying bracket and the pivotal connection between them, consisting of the hollow head of the bracket, the gudgeon on one end journaled in one end of the bearing, the fixed water-pipe fitted in the other end of the bearing and extending into and forming the journal for the other end of the bracket-head and on which said head turns, and the collars and intervening washer on said pipe within the bracket-head, substantially as herein described.

2. The swinging hollow head c , in combination with the fixed water-pipe extending into one end of said head and having its end abutting against the other end of the head, said pipe being provided with openings within said head, and the collars and intervening washer on said pipe within the hollow head and bearing against its first end, substantially as herein described.

3. In a swinging hose-reel, the pivotally-connected bracket having a hollow head and hollow arm, in combination with the reel having a hollow hub and the joint between the bracket and reel, consisting of the fixed pipe F, connected with the hollow arm and extending into and forming the bearing for the

reel-hub, and the collars and washer on said pipe and within the reel-hub, substantially as herein described.

4. In a swinging hose-reel, the pivotally-connected bracket having a hollow head and arms, one of which is hollow and communicates with the head, in combination with the reel having a hollow hub and the joint between the bracket and reel, consisting of the gudgeon on one end of the reel-hub, journaled in one arm of the bracket, the fixed pipe F, connected and communicating with the hollow arm of the bracket and passing into the other end of the hollow hub, forming the bearing on which said hub turns, and the collars and washer on the pipe and within the hub, substantially as herein described.

5. In a swinging hose-reel, the fixed bearing B, the bracket having a hollow head and hollow arm, and the reel having a hollow hub, in combination with the joint between the bearing and bracket, consisting of the fixed water-pipe on which the bracket-head is journaled and the collars and washer on said pipe within the head, and the joint between the bracket and reel, consisting of the fixed pipe F, carried by the hollow arm of the bracket and on which the reel-hub is journaled, and the collars and washer on said pipe within the reel-hub, substantially as herein described.

In witness whereof I have hereunto set my hand.

WILLIAM F. BOWERS.

Witnesses:

S. H. NOURSE,
H. C. LEE.