(No Model.)

G. B. LEONARD.

Hose Carriage.

No. 232,136. Patented Sept. 14, 1880.

Fig. 1.

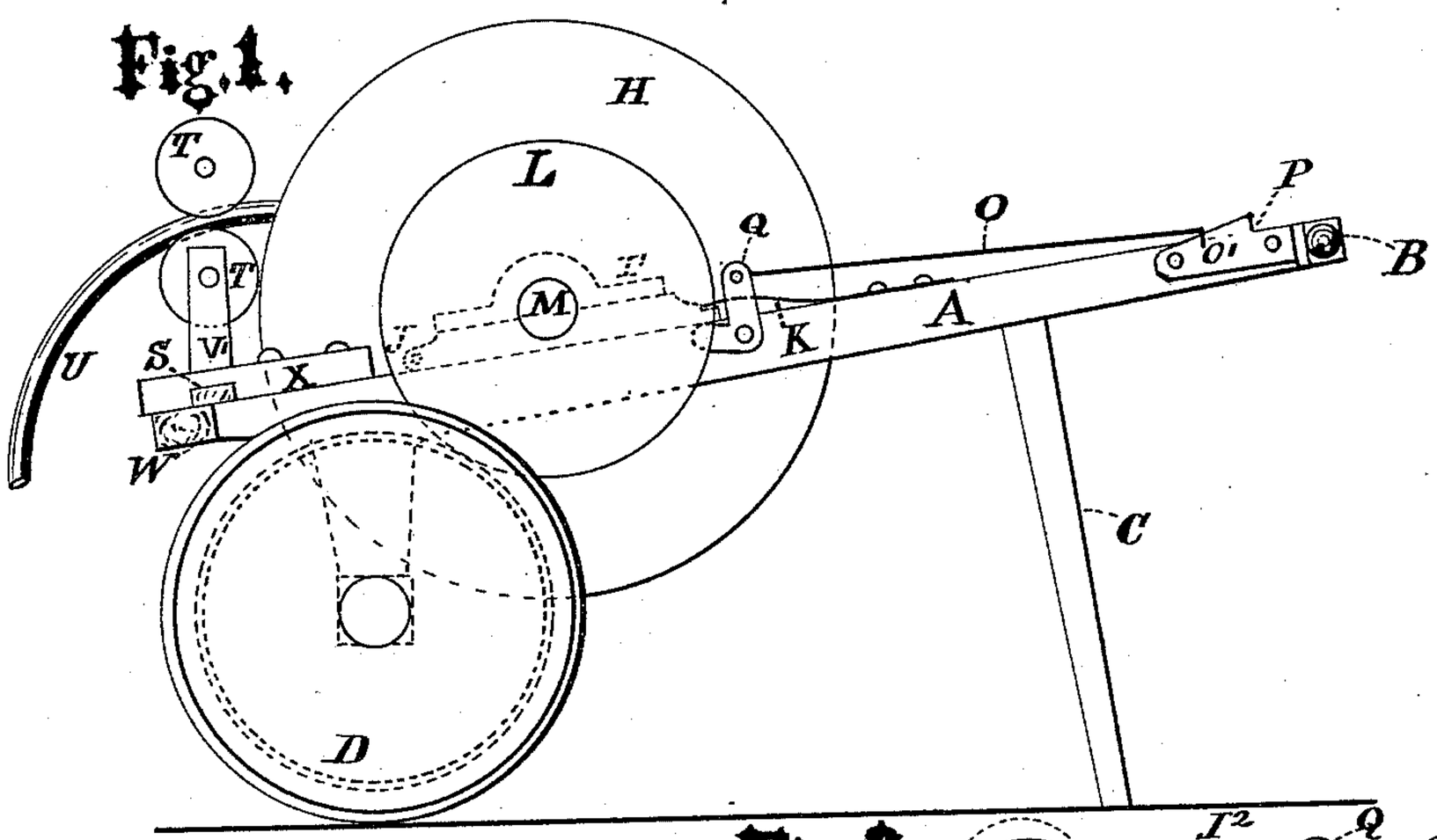


Fig. 2.

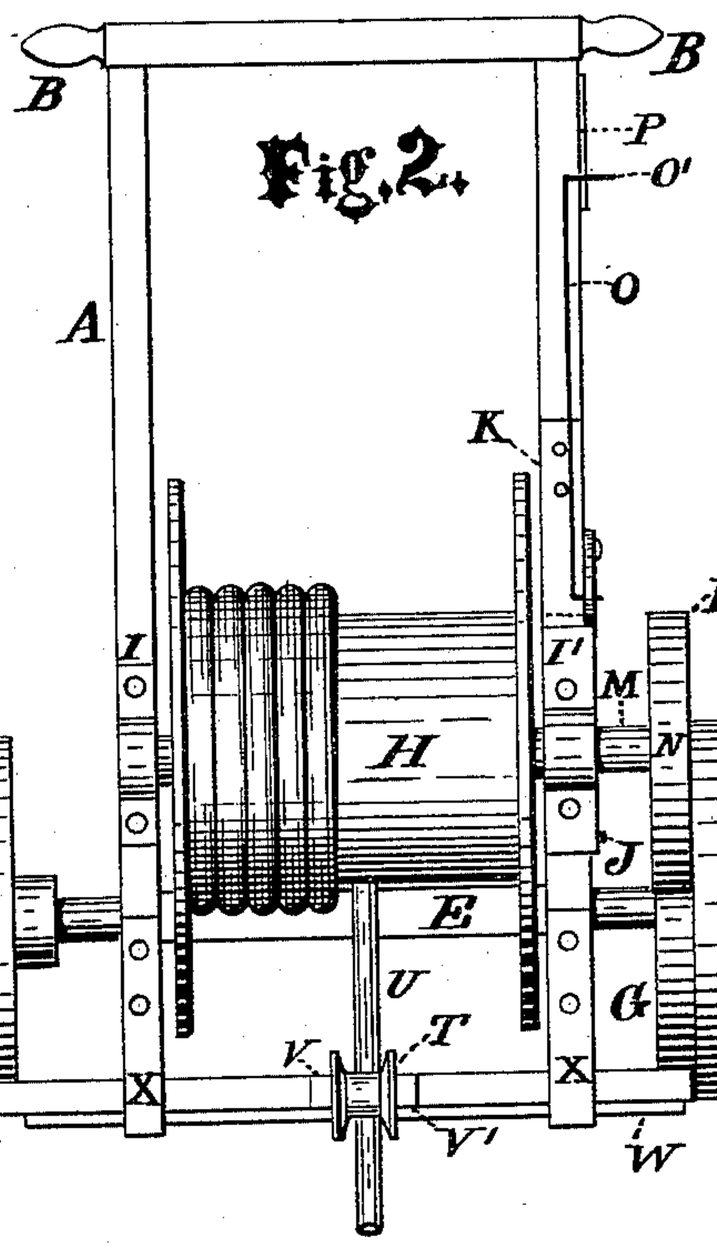


Fig. 3.

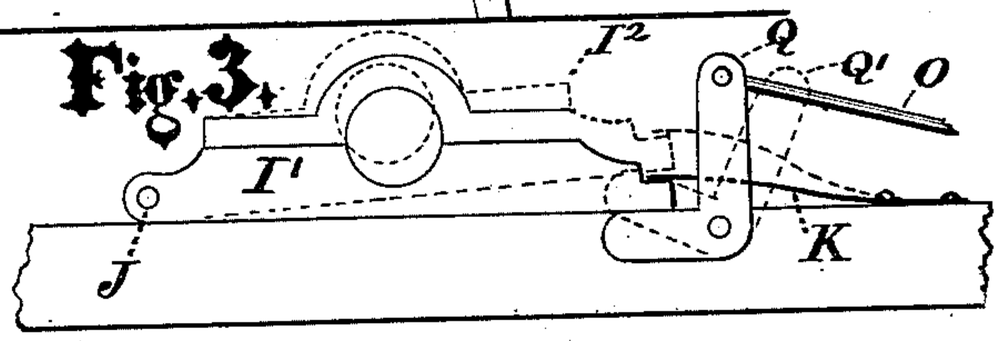
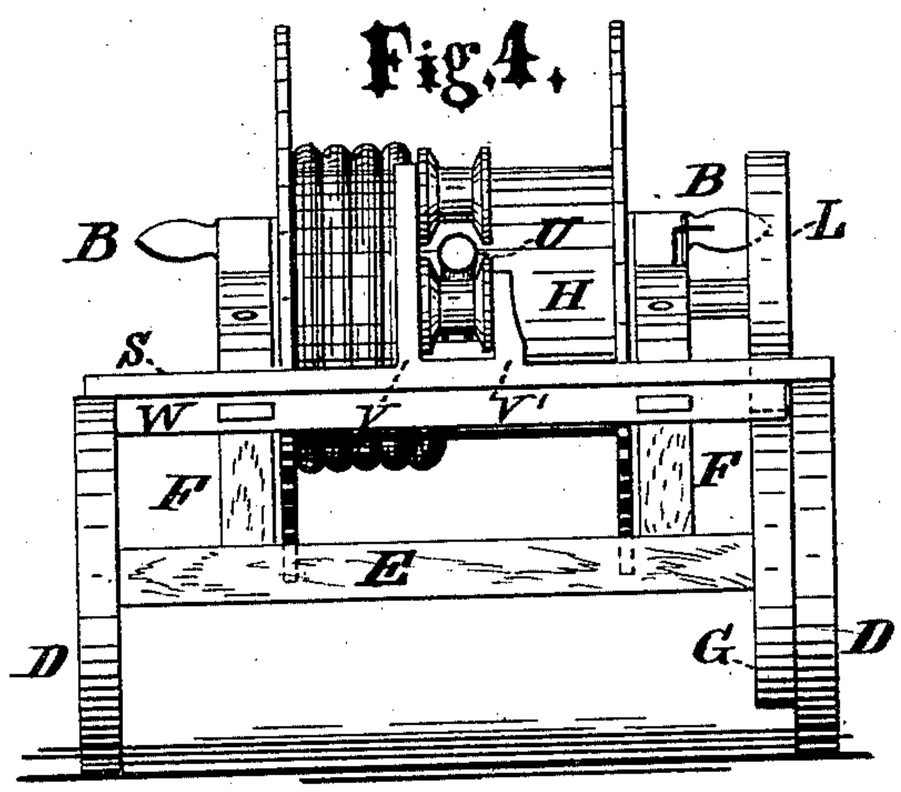


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE B. LEONARD, OF LAWTON STATION, NEW YORK.

HOSE-CARRIAGE.

SPECIFICATION forming part of Letters Patent No. 232,136, dated September 14, 1880.

Application filed May 12, 1880. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. LEONARD, a citizen of the United States, residing in Lawton Station, in the county of Erie and State of New York, have invented certain new and useful Improvements in Hose-Carriages, of which the following is a specification.

The object of my invention is to produce a cheap portable hose carriage and reel; and it consists of a hose-carriage in which the reeling mechanism works automatically by means of friction-gearing, in combination with a laterally-moving hose carrier or guide, the friction-gearing being under control of the operator, so that while the carriage is moving it may be easily made to reel or stop reeling when required, as will be more clearly hereinafter shown by reference to the drawings, in which—

Figure 1 is a side elevation of the hose-carriage complete. Fig. 2 is a plan or top view; Fig. 3, an enlarged view of a portion of the machine, showing the device for throwing the reel into and out of gear; and Fig. 4 represents a front view of the carriage and hose-reel.

A is the frame of the machine; B, the handles by which it is moved about; C, the legs for supporting the rear portion of the carriage.

The frame A is supported in front by the wheels D, bar E, and vertical supports F. To one of the wheels D is attached a wheel of smaller diameter, G, arranged on the same shaft.

The bar or support E is provided with axles to receive the wheels D, to which they are connected in the ordinary and well-known way.

H represents the hose-reel. It is set in boxes I I′ on the top of the frame A. The box I′ is jointed to the frame at J, and the opposite end of said box is held to the frame by a spring, K.

L is a wheel fastened to the reel-shaft M, the face of which, N, (when the machine is in position for reeling the hose,) rests upon the face or periphery of the wheel G with sufficient force to cause friction enough to turn the reel and roll the hose on the barrel H while the carriage is being moved forward, or cause it to be unrolled while moving backward, if desired.

By this arrangement it will be seen that the weight of the reel and its connections furnishes the necessary friction to operate it. In some cases it would be well to fasten a strip of leather, rubber, or other similar material around the periphery of the wheel G to increase the friction; or the same result may be effected by having a series of V-shaped grooves around the wheels, so as to form the well-known grooved friction-gearing.

When it is desired to move the carriage without turning or operating the reel all that is necessary to do is to draw the rod O forward and put its bent portion or handle O′ over the notch P. (See Figs. 1 and 2.) This operation will lift one side of the box I′, as shown by dotted lines I^2 in Fig. 3, which, as will be readily seen, moves the wheel L up and away from the wheel G, the angular arm Q being made to turn, as shown by dotted lines Q′.

The spring K is bolted to the frame A, and presses the movable end of the box I′ down when the rod O is released from the notch P, and thereby allows the friction-gear to come in contact.

If desired, the spring K may be dispensed with and the weight of the reel allowed to act in its place.

The hose U is guided and kept in place by a laterally-movable bar, S, upon which is mounted (on upright posts V V′) the flanged rollers T T, between which the hose passes, as shown in Figs. 1, 2, and 4, so that the bar S and the rollers T T move back and forth from side to side on the cross-bar W, to which they are fastened by boxes X, as the hose moves to one side or the other while it is being rolled up on the barrel or reel H, or unrolled.

In some cases the catch or notch P may be dispensed with and the parts held out of gear by hand, but it would not be so convenient; and in place of the box I′ a sliding box for holding that side of the reel, arranged in suitable guideways, may be used.

My invention is especially designed as a garden-hose carriage to be operated by hand, but may be used for other purposes.

I claim as my invention—

1. In a hose-carriage, the combination of a reel one side of which is held in a pivoted bearing, and an elevating device arranged to

operate on the outer end of the said bearing, substantially as set forth.

2. In a hose-carriage, the combination of the reel H, one side of which is held in a pivoted bearing-box, I′, friction-wheel L, wheels D and G, an arm, Q, and a rod, O, for raising the front end of the box I′, substantially as set forth.

3. In a hose-carriage, the combination, with the frame A and boxes X, of the bar S, supported in said boxes, and carrying the rollers T, and arranged to slide freely under the action of the hose, substantially as and for the purpose set forth.

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Witnesses:

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