

R. W. GLENN.
HOSE REEL.
APPLICATION FILED APR. 22, 1911.

1,017,532.

Patented Feb. 13, 1912.

Fig. 1.

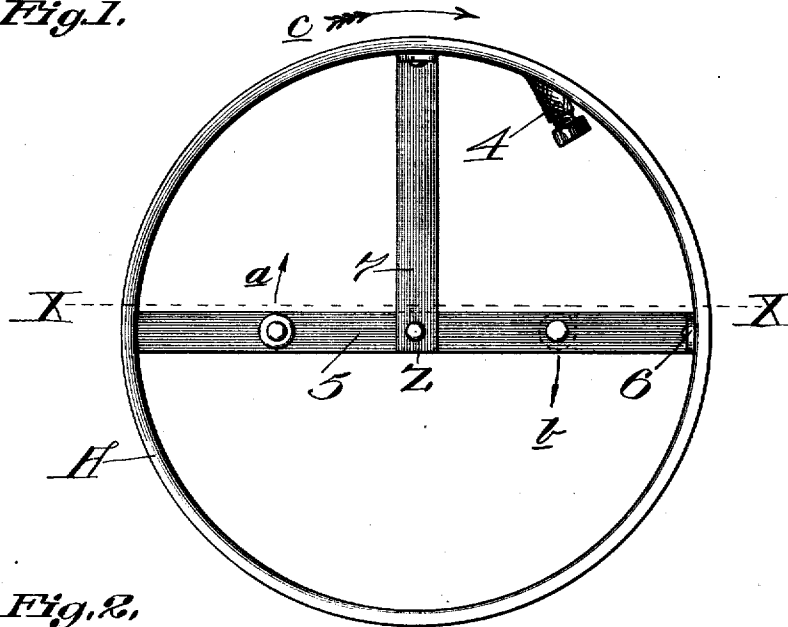


Fig. 2.

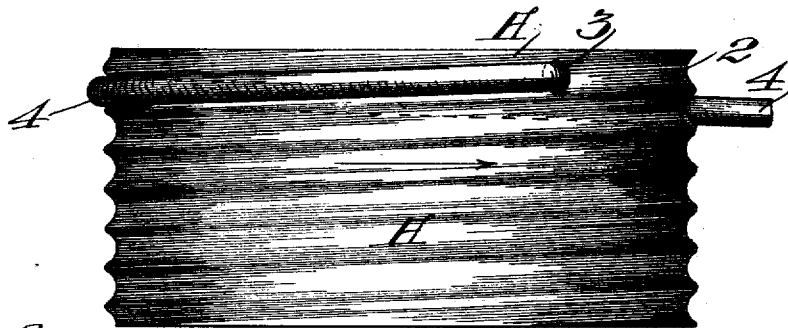
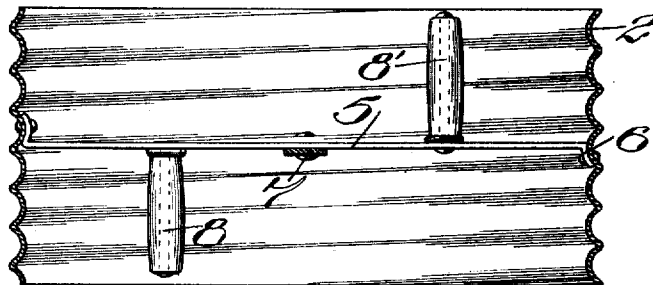


Fig. 3.



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UNITED STATES PATENT OFFICE.

RALPH W. GLENN, OF FRUITVALE, CALIFORNIA.

HOSE-REEL.

1,017,532.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed April 22, 1911. Serial No. 622,742.

To all whom it may concern:

Be it known that I, RALPH W. GLENN, citizen of the United States, residing at Fruitvale, in the county of Alameda and State of California, have invented new and useful Improvements in Hose-Reels, of which the following is a specification.

This invention relates to a hose-reel or drum and to the means by which the reel is rotated to wind a hose thereon.

It is common in hose-reels to mount the reel on a stand or framework of some sort, and then in winding the hose on the reel to pull the hose up to the reel.

The underlying principle of my invention is to utilize an unsupported drum of special construction to which one end of the hose can be attached and then the drum run along the hose to wind the hose about the drum; the unwound length of hose lying undisturbed on the ground. If desired, my drum can be held in the hands and rotated by the means hereinafter described so as to pull the hose toward the operator at the time of winding.

It is the object of this invention to provide a hose-reel which is simple in construction, of light weight, economical in space and which can be manufactured and sold at small cost.

A further object is to produce a reel which is adapted to travel on the unwound portion of a hose when winding the latter on the reel, and in which simple means are provided by which the reel may be easily and readily rotated.

Another object is to so form the reel that the first layer of hose will wind in compact spiral arrangement and at the same time be securely retained on the reel and prevented from sliding from side to side thereon.

The invention consists of the parts and the combination and construction of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a side elevation of the invention. Fig. 2 is a plan view. Fig. 3 is a section on the line XX, Fig. 1.

In the drawings, A represents an open ended metal drum of suitable length, the peripheral surface of which is corrugated with a continuous spiral groove 2. A perforation 3 is formed in the drum A at a point adjacent one of the terminations of the spiral groove 2 through which the end of

a hose 4 may be inserted and held in place therein.

Mounted within the drum A is a flat bar 5 which extends diametrically across the center or axial line of the drum and is riveted at its ends to the inner wall of the drum, the ends of the bar 5 being bent at right angles to form flanges through which rivets 6 extend. A similar bar 7 has one end riveted to the center of the bar 5 and extends at right angles thereto, the outer end of the bar 7 being bent to form a flange which is riveted to the drum; this bar 7 being provided for stiffening purposes.

In order to facilitate the winding up of a hose there may be mounted on the opposite sides of the bar 5 a pair of hand-holds 8—8'; the hand-holds 8 being disposed on one side of the axial line or center of the drum, indicated at Z, and the hand-holds 8' on the other side of the axial line Z.

In the application of this invention the end of the hose 4 is secured in the perforation 3, and the hand-holds 8—8' are grasped in each hand. By giving an upward pull on one of the hand-holds and bearing down upon the other, as indicated by the arrows a—b, Fig. 2, the drum A may be caused to have a rotary movement with its axial line Z, as the center of rotation, the hand-holds 8—8' moving concentrically in relation to the axial line Z, at all times. The rotation of the drum A in the direction of the arrow c, Figs. 1—2, winds the hose in the spiral groove 2 thereon, the drum traveling on the hose as it is revolved by the hand-holds 8—8' where the weight of the hose is too great to admit of the reel being held above the ground and supported in the hands.

Where the hose being wound on the reel A is sufficiently light the reel may be held in the hands by the handles 8—8' and revolved; the handles then tending to move concentrically in relation to each other, thereby giving the drum an eccentric movement, by reason of the drum first revolving around one of the hand-holds as a center, then around the other.

When the hose 4 is wound in layers on the drum A, it is prevented from shifting sideways by reason of the continuous rib separating the spiral groove 2 engaging the hose 4 on each side of each spiral turn of the first layer.

The essential feature of this invention is a

reel simply in the shape of a corrugated cylinder or barrel needing no support, which can be run along the ground, or held in the hands to wind up the hose. By such a construction and making the drum of sheet metal I am able to furnish a hose-reel which is simple, compact, and costs but a trifle compared with the ordinary reels on the market.

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

1. A hose reel consisting of a cylindrical shell having a circumferential spiral groove, and inner handles by which it may be manually raised and revolved free of other support.

2. A reel comprising in combination a drum having a continuous spiral groove formed on its outer peripheral surface, means for attaching a hose near one terminal of said spiral groove, and handles by

which the drum may be manually raised and revolved free of other support to wind the hose in said spiral groove. 25

3. A reel comprising in combination a drum having a continuous spiral groove formed on its outer peripheral surface, means for attaching a hose near one terminal of said spiral groove, a bar diametrically disposed in said drum and attached at each end thereto, and a hand-hold mounted on each side of said bar, one of said hand-holds being situated on one side of the axial line of said drum and the other hand-hold situated on the other side of the axial line. 30 35

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

RALPH W. GLENN.

Witnesses:

F. O. RASCHEU,
P. W. HORLICK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."