E. ANDERSON.

HOSE REEL.

APPLICATION FILED DEC. 13, 1910.

1,011,397. Patented Dec. 12, 1911.

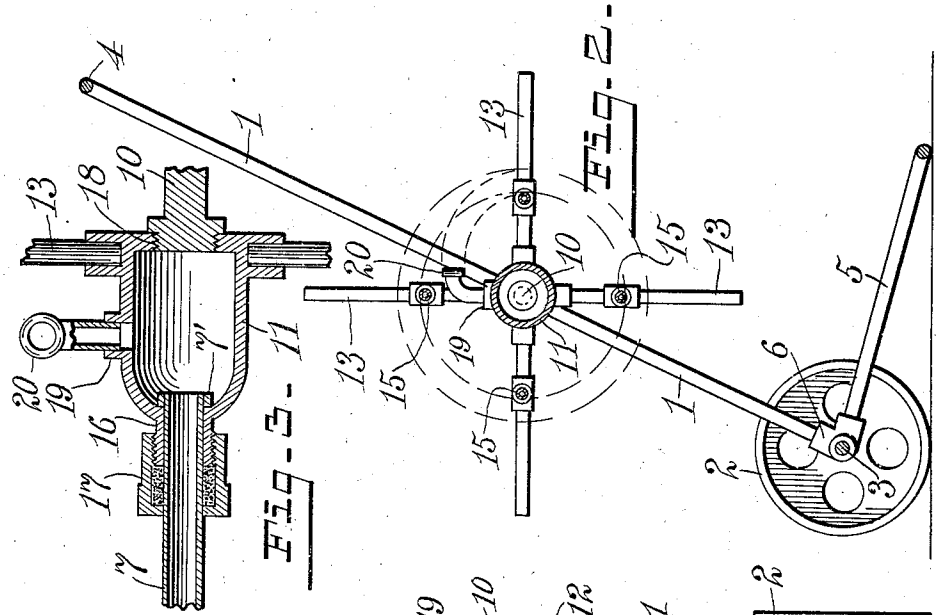

Fig. 3.

Fig. 2.

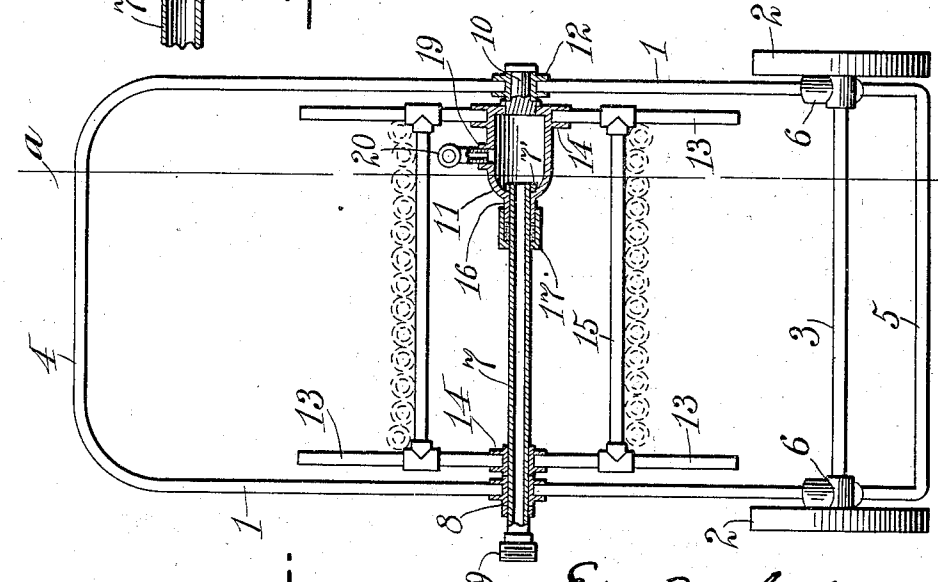

Fig. 1.

Witnesses

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HOSE-REEL.

1,011,397. Specification of Letters Patent. Patented Dec. 12, 1911.

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To all whom it may concern:

Be it known that I, EDWARD ANDERSON, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Hose-Reels; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to new and useful improvements in hose reels.

The object of the invention is to provide a portable hose reel for reeling the smaller hose, such as is used for sprinkling lawns, etc.

The improvements relate to the specific manner of introducing the water to the hose through the axle of the reel, as hereinafter more particularly described in the specification and set forth in the claim.

In the accompanying drawing, Figure 1 is a front elevation of the reel showing the portable frame upon which it is mounted, and the inlet pipes or chambers appearing in section, and which form the axle of the reel. Fig. 2 is a sectional view of Fig. 1 on the line *a*—*a*. Fig. 3 is an enlarged sectional view of a portion of the water pipe and chamber forming the axle of the reel as well as the inlet for the water to the hose.

In a detailed description of the invention, similar reference characters indicate corresponding parts.

The frame 1 is portable, being mounted upon wheels 2 provided with an axle 3 which extends from one side of the frame to the other. The upper part of the frame is joined by an endless extension 4 which forms a handle portion. The bottom portion of the frame is joined by an extension 5 which reaches rearwardly and forms a support for the device when stationary. This frame thus described, is constructed of round iron of suitable diameter to afford the requisite rigidity and the axle 3 is provided with bearings 6 which have sockets for the reception of the ends of the frame. Of course, it will be readily understood that the frame work of the device might be varied in many particulars without affecting the essence of the invention which will be presently described. The axle of the reel consists of a water pipe 7 which extends through bearings 8 on one side of the frame, and is provided with the necessary screw-threaded end 9 for connection with the water pipe through which the supply is obtained. This water pipe is not illustrated in the drawings nor is any further connection necessary to be illustrated, as it is obvious that such a connection with the water pipe which furnishes the supply is simple. The other end of the axle consists of a member 10 which performs the double function of a side bearing and a plug to close one end of a water chamber 11. This plug axle 10 is mounted in a bearing 12 on one side of the frame similar to the bearing 8. The reel consists of a series of radial arms 13 which are united to the axle pipe 7 and the chamber piece 11 by socket members 14, and these radial arms 13 are joined by cross arms 15 which form the portion of the reel upon which the hose is wound. The inner end of the axle water pipe 7 is projected into a tubular extension 16 which extends inwardly from the chamber piece 11, and the extreme end of said pipe 7 lying within the chamber piece is fitted with a collar 7′ and the two pieces, to wit, the pipe 7 and the chamber piece 11 are united by a stuffing box 17 which snugly fits over the tubular extension 16 and incloses suitable packing. In Fig. 3 the cap 17 forming the stuffing box is screwed onto the tubular extension 16.

Owing to the rigid collar or enlargement on the inner end of the pipe 7, it becomes necessary to insert said pipe through the chamber piece 11 by passing it through the opening 18, which is closed by the plug bearing 10, as before stated. This bearing 10 is provided with a screw-threaded portion which enters the aperture 18 and thus closes the water chamber as well as forming the bearing for one side of the reel. The chamber member 11 is provided with an apertured extension 19 which receives a nozzle or pipe connection 20 to which the inner end of the hose is attached. The water entering the axle pipe 7 passes into the chamber of the piece 11 and thence out through the connection 20.

The packing gland 17 is made of extra length, which allows the gland to stand considerable wear, while at the same time it permits the reel to rotate freely on the axle.

I claim:

In a hose reel, the combination with a portable frame, of a reel mounted within said frame, the pipe 7 and the chamber member 11 being adapted to conduct water to the end of a hose attached to said chamber member, the chamber member 11 having an apertured extension 16 through which the pipe 7 extends, the inner end of said pipe being provided with a collar 7', a cap 17 fitting over the pipe 7 and the tubular extension 16, and forming a stuffing box at the joint between said pipe 7 and chamber member 11, the chamber member 11 having an aperture in its outer end and a plug 10 closing said aperture and forming a journal for one end of the reel, the pipe 7 forming the bearing for the other end of the reel, as herein shown and described.

In testimony whereof I affix my signature, in presence of two witnesses.

EDWARD ANDERSON.

Witnesses:
R. J. McCarty,
Matthew Siebler.