

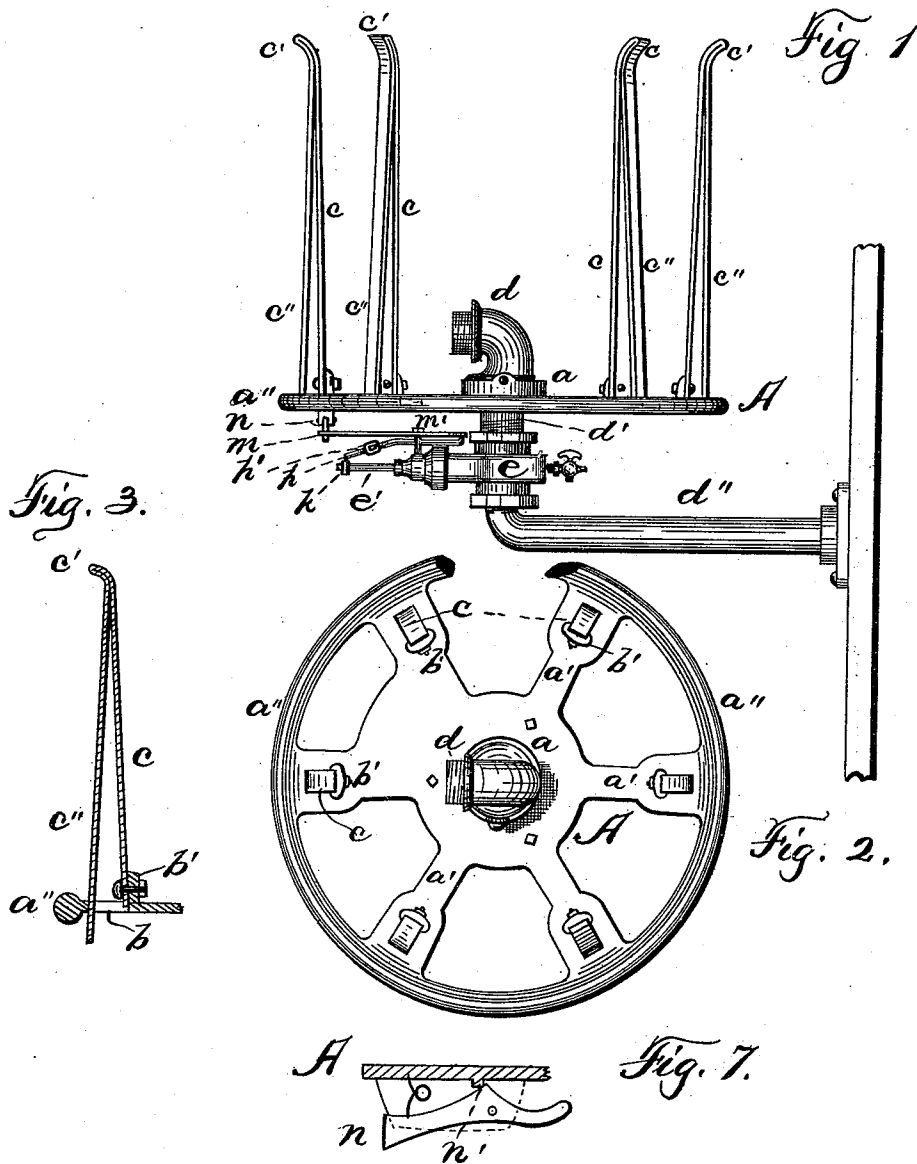
(No Model.)

3 Sheets—Sheet 1.

J. B. HUNTER
HOSE REEL.

No. 528,597.

Patented Nov. 6, 1894.



WITNESSES:

Chas. W. Marvin.
W. W. Boat

INVENTOR
James B. Hunter.

BY

Smith & Davidson
ATTORNEYS.

(No Model.)

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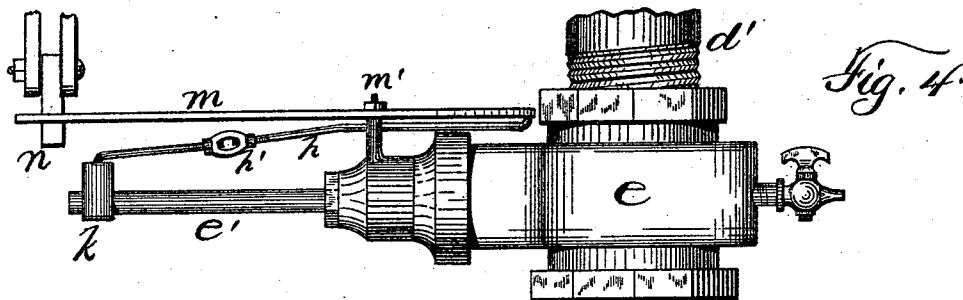


Fig. 4.

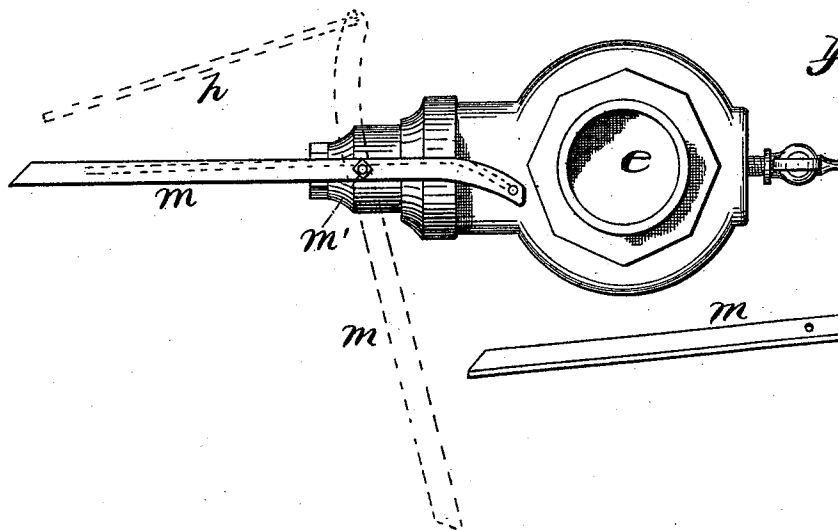


Fig. 5.



Fig. 6.

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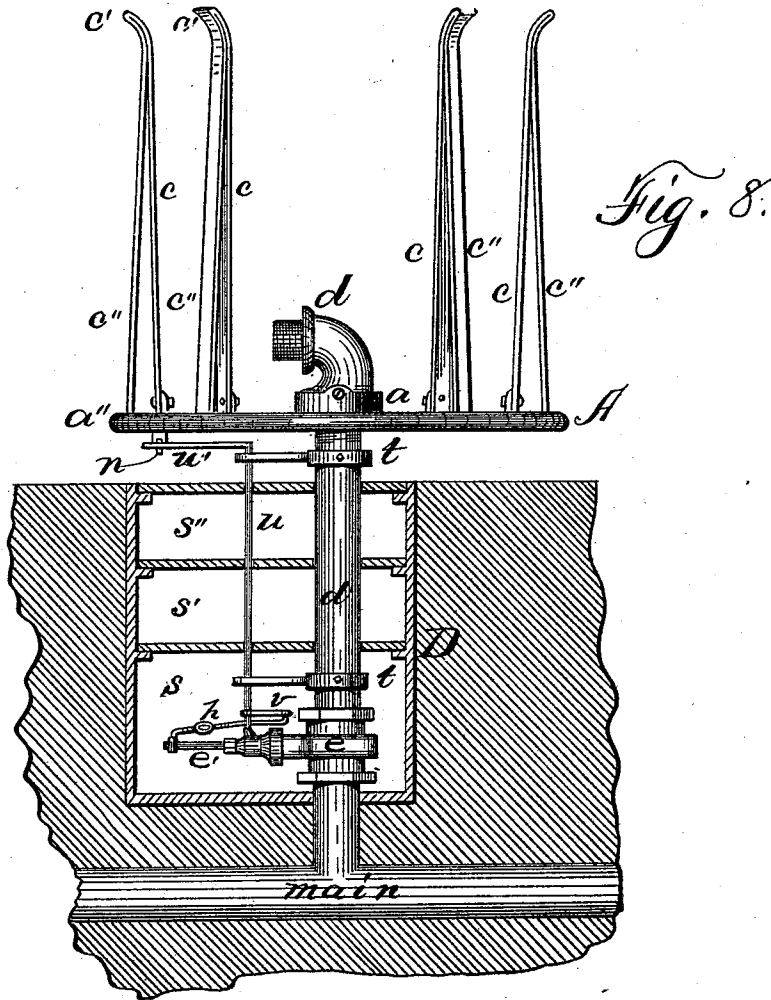
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No. 528,597.

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WITNESSES:

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W. W. Bost.

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UNITED STATES PATENT OFFICE.

JAMES B. HUNTER, OF CATO, NEW YORK.

HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 528,597, dated November 6, 1894.

Application filed March 19, 1894. Serial No. 504,143. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. HUNTER, of Cato, in the county of Cayuga, in the State of New York, have invented new and useful
5 Improvements in Hose-Reels, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to hose reels of the
10 class in which the water-valve is opened, to let on the water, by rotation of the reel-body when the hose is being unwound therefrom.

My object is to produce an upright reel, comprising a base rotatably mounted upon a
15 water pipe, vertical reel-bars of spring metal secured thereto and adapted to have a double spring action when compressed by the enlargement of the hose when filled with water, and a sliding gate valve opened by the rota-
20 tion of the reel through an adjustable push-bar connected to the valve stem, and a lever pivoted upon the valve body and to which the push-rod is connected, and a lug or shoulder upon the base adapted to engage with the
25 free end of the lever when the base is rotated, and throw said lever around and pull the valve-stem out and open the valve to let on the water.

My invention consists in the several novel
30 features of construction and operation hereinafter described and which are specifically set forth in the claims hereunto annexed.

It is constructed as follows, reference being had to the accompanying drawings, in which—

35 Figure 1, is a side elevation of the reel, mounted. Fig. 2, is a top plan thereof. Fig. 3, is a vertical section of one of the spring reel-bars and a part of the base upon which it is mounted. Fig. 4, is an enlarged side
40 elevation of the valve and its opening mechanism. Fig. 5, is a top plan of the valve and the main lever, the dotted lines indicating the push-bar at rest and the lever and push bar swung to open the valve. Fig. 6, is a plan
45 perspective of the main lever. Fig. 7, is a sectional side elevation of the shouldered trigger which engages with the main lever of the valve opener. Fig. 8, is a sectional elevation showing a reel like that in Fig. 1,
50 erected out of doors, with the valve in the

ground below frost, and the valve opening mechanism adapted to be actuated by the rotation of the reel.

—A— is the reel-base having (in Figs. 1 and 2) the hub —a—, the spokes —a'— and the
55 rim —a''—, the spokes having the mortises —b— adjacent to the studs or lugs —b'— to which one leg of the reel-arms —c— is secured, each of said arms being of spring metal bent upon itself and curved outwardly as at
60 —c'—, and having the leg —c''— divergent and passing through said mortise. A goose-neck —d— is secured upon said base and said base is mounted upon the pipe —d'—
65 by an ordinary gasket joint, and —e— is the valve mounted in the usual manner between the pipe —d'— and the branch pipe —d''— which is connected to the water main, said
70 branch pipe being also the reel-supporting arm or bracket. This valve is an ordinary sliding gate valve, —e'— being the stem secured to a flat disk adapted to be reciprocated within the valve body to open the valve and
75 let on the water or to close it and shut off the water, from the hose which is coupled onto said goose-neck. A sectional push rod —h—
the sections of which are adjustably connected by an ordinary turn-buckle —h'— has one end connected at —k— to the valve stem,
80 and the other to the inner end of the lever —m—, both connections being pivoted, and said lever is pivoted at —m'— upon the valve body, its outer end being adapted to engage with the end of the spring dog or trip —n—
85 pivoted upon the base, and provided with a shoulder —n'— engaging with the base to hold said dog in proper position, to strike against said lever when the reel is rotated by the unwinding of the hose therefrom, and
90 thereby swing said lever around and thereby force or push the valve stem outwardly and open the valve. This trip is so mounted, however, that when the reel is reversely rotated to wind up the hose, the valve having
95 been closed, it will simply rock upon its pivot as it passes over said lever, without positively engaging with it.

It will be seen that the rim of the base exterior to the reel arms will support the empty
hose wound on to the reel, and that as the 100

hose enlarges and at the same time is contracted, the legs —c''— of said arms will be sprung or forced inwardly, thereby increasing the width of said rim, and thus affording full support for the hose when filled; and that as the upper winds of hose are enlarged and contracted, the whole upper part of each reel arm is sprung inwardly.

In Fig. 8, the reel shown in Fig. 1, is shown as set up with the valve lowered below the surface of the ground to prevent freezing, a box —D— being set into the ground and provided with horizontal partitions subdividing it into separate air chambers, —s—, —s'—, —s''—; brackets —t— being mounted upon the pipe, to support and guide the crank lever —u—, having an arm —u'— with which the trip engages, the lower end of said crank being pivoted upon the valve case, or hood, and an arm or lever —v— being secured upon said crank lever and connected to the sectional push-rod, whereby the unwinding rotation of the reel, will, through the trip, swing the crank-lever around and open the valve.

The several separate air chambers will effectually protect the valve against frost.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A hose-reel comprising a base and vertical reel-arms erected thereon, each comprising a spring bent upon itself and having its free end divergent, and a rim upon said base exterior to said divergent ends of said arms.

2. The combination with the reel comprising a base and spring arms mounted thereon, of a box subdivided into air-chambers, a valve set into said box and connected to a water main and to said reel, a crank-lever, an arm thereon, a push-rod connected thereto and to the valve stem, and a trip upon the reel adapted to engage with said crank-lever when the reel is rotated.

In witness whereof I have hereunto set my hand this 12th day of March, 1894.

JAMES B. HUNTER.

In presence of—

CHAS. W. MARVIN,
HOWARD P. DENISON.