No. 677,993. Patented July 9, 1901.

W. JONES.

HOSE REEL.

(No Model.) (Application filed Apr. 4, 1901.) 2 Sheets—Sheet 1.

Fig. 1.

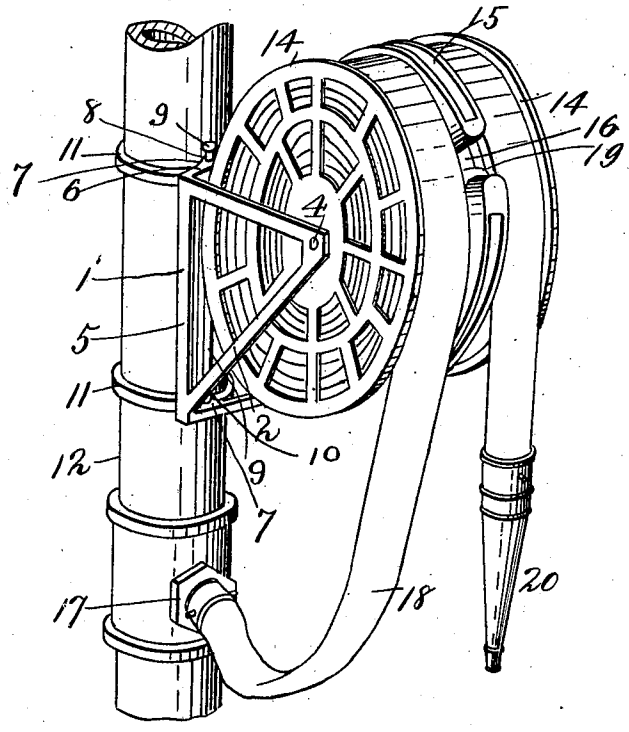
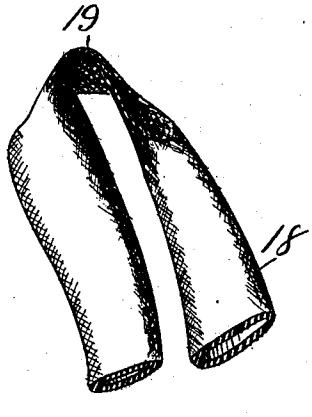


Fig. 3.



WITNESSES:

F. L. Ormand.

Frank G. Radelfinger

INVENTOR.

Walter Jones,

BY Louis Bagger & Co.,

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 677,993. Patented July 9, 1901.

W. JONES.

HOSE REEL.

(No Model.) (Application filed Apr. 4, 1901.)

2 Sheets—Sheet 2.

Fig. 2.

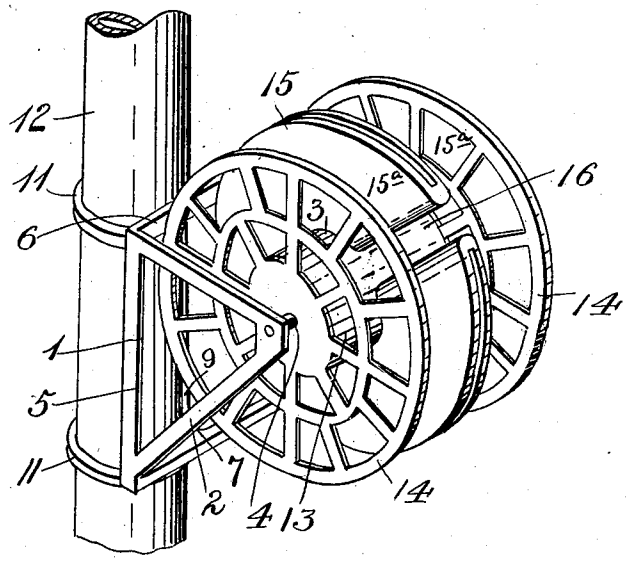
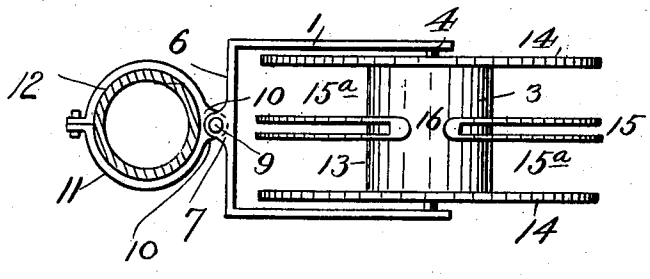


Fig. 4



WITNESSES:

F. L. Durand.

Frank G. Radelfinger

INVENTOR.

Walter Jones.

BY Lowry Bagger & Co.

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WALTER JONES, OF NIAGARA FALLS, NEW YORK.

HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 677,993, dated July 9, 1901.

Application filed April 4, 1901. Serial No. 54,306. (No model.)

To all whom it may concern:

Be it known that I, WALTER JONES, a citizen of the United States, residing at Niagara Falls, in the county of Niagara and State of New York, have invented new and useful Improvements in Hose-Reels, of which the following is a specification.

My invention relates to hose-reels, and has for one object the construction of an improved reel on which the hose may be wound, proceeding from the middle outward toward the ends.

A second object is to provide a mounting for the reel which can turn about a vertical axis and face in any direction in which the hose is pulled.

The advantages attained by my improved reel may be briefly summarized as follows: First, the hose may always continue attached to a hydrant, as it need not be detached either in winding or unwinding, and is therefore always ready for instant use; second, the time necessary both to wind and unwind the hose is reduced one-half, and the hose may be unwound by simply pulling on the nozzle, and, third, the reel will face in any direction the hose is pulled, thereby facilitating the unwinding.

These objects and advantages are attained by the simple and novel construction described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a perspective of my improved reel pivoted to a water-pipe and having hose coiled thereon. Fig. 2 is a perspective of the spool when empty. Fig. 3 is a detail showing the manner of folding the hose. Fig. 4 is a plan view of the empty reel.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates a frame having brackets 2 projecting therefrom for supporting a spool 3, mounted on a shaft 4, journaled in the brackets. The frame 1 has side bars 5 and cross-bars 6. Projecting from the cross-bars 6 are rounded lugs 7, apertured at 8 and connected by a rod 9, passing through the apertures 8 and keyed therein. This rod 9 also traverses perforated lugs 10, formed on collars 11, mounted on a water-main or hydrant 12. The rod 9 is free to turn in the lugs 10, and thus serves as an axle which turns with the frame 1, thereby leaving it free to swing through a considerable arc. The spool 3 has a central hub 13 and heads 14, all mounted on the shaft 4. A transverse partition 15, rigidly attached to the hub 13, divides the spool into two compartments 15^a. This partition is notched at 16, which notch is rounded out on its lower side. The compartments 15^a are each of just sufficient width to accommodate one coil of flattened hose, although they may be made wider. The pipe 12 is provided with a coupling 17, to which a hose 18 is shown attached.

In winding the hose 18 on the spool 3 the hose is first extended at full length and coupled to the hydrant 12 and then folded in the middle at 19, as illustrated in Fig. 3. The loop thus formed is engaged in the rounded notch 16 in the partition 15, the spool 3 turned, and the hose wound up, as shown in Fig. 1.

When the winding has been completed, the extremes of the hose will come on top, with the nozzle end in position to be grasped.

In case of fire the nozzle 20 is grabbed and pulled and the hose reeled off in the direction of the fire, after which the water is turned on. The pulling of the hose will turn the reel about the axle 9 and facing the direction of the pull, thereby preventing the binding of the hose.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a device of the class described, the combination with a frame provided with brackets, of a spool provided with heads and mounted to turn in said brackets, and a partition extending transversely said spool and provided with a notch adapted to engage a loop in a hose, substantially as described.

2. In a device of the class described, the combination with a reel provided with a spool having a transverse notched partition, of a hose attached to a hydrant and doubled in the center to form a loop and wound from the center toward the ends with the said loop engaging the notch in said notched partition, substantially as described.

3. In a device of the class described, the combination with a frame mounted to turn on a vertical axis, of a spool provided with heads and mounted in said frame to revolve on a horizontal axis, of a partition extending transversely said spool and provided with a transverse notch adapted to engage a loop in a hose, substantially as described.

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

WALTER JONES.

Witnesses:
C. A. COLE,
M. BRADLEY.