

2 Sheets—Sheet 1.

No. 442,447.

Patented Dec. 9, 1890.

Fig 1.

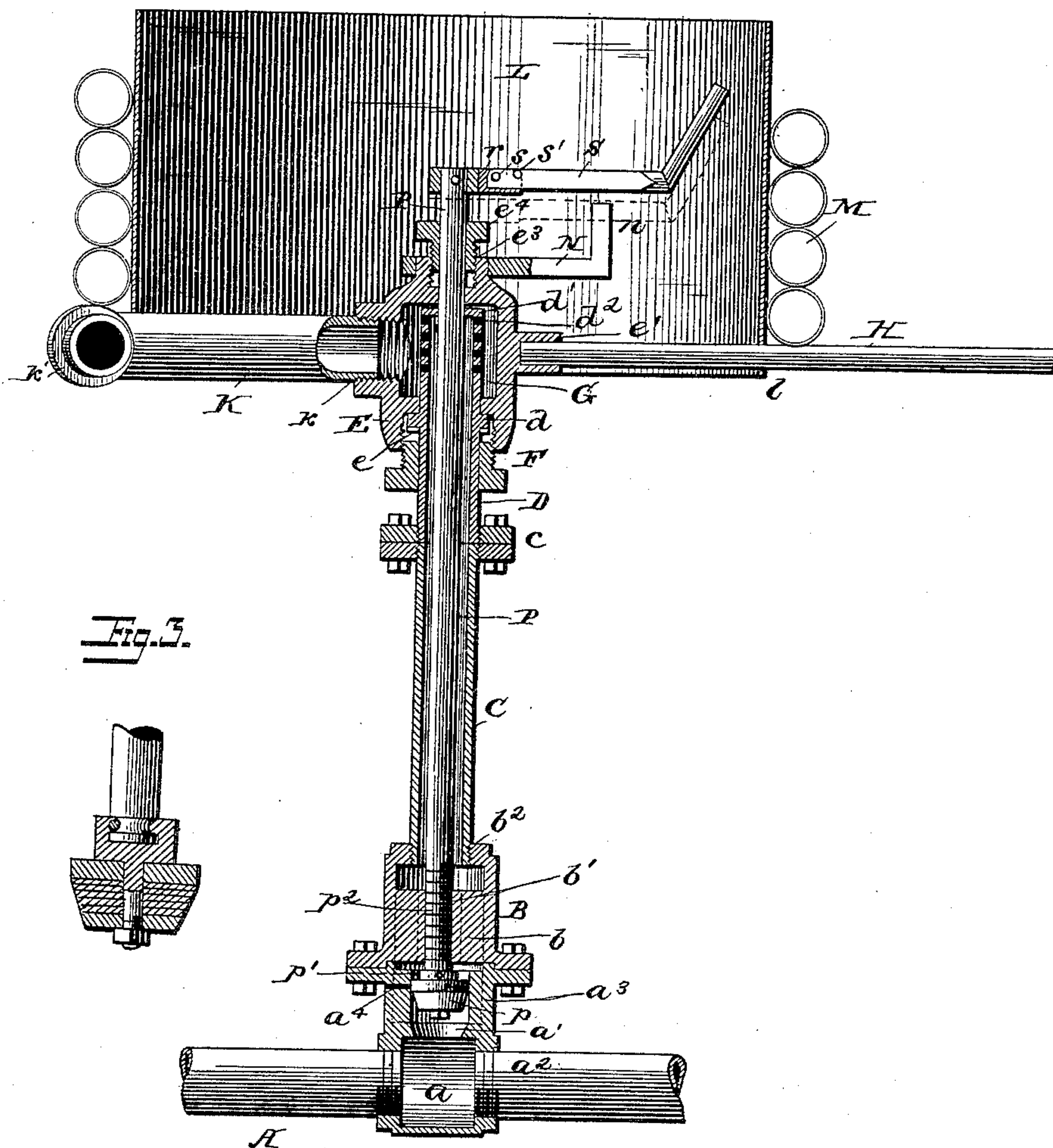


Fig. 3.

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(No Model.)

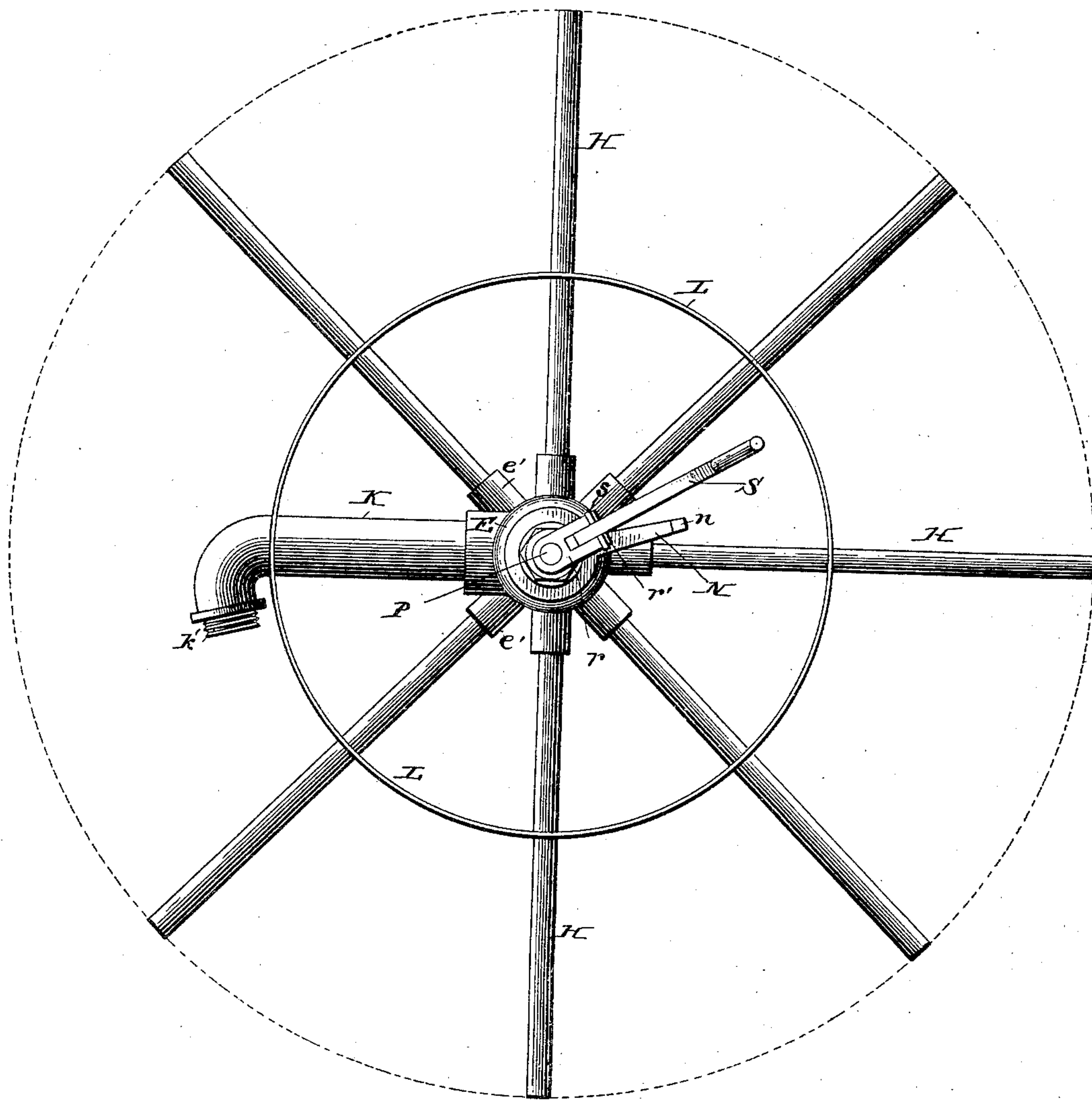
2 Sheets—Sheet 2.

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HOSE REEL ATTACHMENT.

No. 442,447.

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Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES H. LUTHER, OF OLEAN, NEW YORK.

HOSE-REEL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 442,447, dated December 9, 1890.

Application filed September 17, 1888. Serial No. 285,641. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. LUTHER, a citizen of the United States, residing at Olean, in the county of Cattaraugus and State of New York, have invented certain new and useful Improvements in Hose-Reel Attachments; 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 of reference marked thereon, which form a part of this specification.

Figure 1 is a transverse vertical section, and Fig. 2 is a top view, of a device containing my invention. Fig. 3 is a view of valve and its connection with the operating device.

This invention relates to improvements in hose-reels of that class where the reels are placed permanently in close proximity to a water-supply, so that when the hose is run off the water may be quickly turned on simultaneously with the unreeling of the hose.

The invention consists in the construction hereinafter pointed out.

In the annexed drawings, the letter A indicates any ordinary water-supply pipe. This pipe has a T-joint a with a valve-seat a' at its outlet. This T is used where there are several attachments to the pipe. If there is one only the opening a^2 of the T is closed. This T has the usual water-ways a^3 and a relief-passage a^4 . Secured to this T is the box B, provided with water-ways b , threaded bore b' , and the threaded opening b^2 . Engaging this opening b^3 is a section of pipe C, the top of which is held to another section D by a flange union c . This section D has a collar d , and its upper end has a hole d' and provided with the perforation d^2 . Resting upon this collar d is a spider E, the collar d entering a recess e on the under side of the spider, and a gland F surrounding section D, holding the spider on and packing it. Around the perforated end of the section D this spider E has a chamber G, and projecting from the spider are the radial sockets e' , carrying the spokes H. The spider E also has a threaded opening k , in which is screwed a pipe K, having the bent threaded end K' . On top of these arms and

the pipe is placed a drum L, the latter having notches l to hold it firmly in place, and around the drum a sheet-iron annulus may be placed on the arms, as shown in section, Fig. 2. Wound around this drum and resting on the arms is the hose M, one end of which is to be secured to the pipe K and the other is provided with the usual nozzle.

To a seat e^3 at the top of the spider E is secured an arm N, having the upturned end n . This top of the spider is also provided with a stuffing-box e^4 , down through which passes the valve-stem P. This stem passes down through the pipe-sections D C, box B, having the threads p^3 in said box, and has at its lower end the valve p , corresponding to the seat a in the T. To the top of the valve p , at the relief-opening a^4 , is fastened a small valve p' for such opening. To the upper end of the valve-stem is secured a forked piece r , having the notches r' on top. Between the forks is hinged a lever-handle S by the pin s , the handle having pins s' , which engage the notches r' when the handle is down.

This device can be put upon a pipe at any place, the assumption being, as is the fact, that the pipe A is beyond the influence of frost, either being below ground or within a building. When the valve is closed, the stem is down, so that the handle S comes down far enough to engage the upturned end n of the arm N, as shown in dotted lines. In this position the device is ready for use, the hose-reel being concentric with the valve-stem.

As the hose M is unreeled from the drum L the spider E is revolved, carrying with it the arm N. The end n bearing against the lever S withdraws the valve p from the seat a' , the lifting of the valve continuing until the handle S passes above the end n of the arm N. The water is thus turned on. To close the valve, the handle S is lifted up to keep it out of contact with the end n and the stem is turned down. As the valve p is lifted the smaller valve p' closes the relief-opening a^4 . As the valve p is lowered on its seat the opening a^4 is uncovered. Thus all the water is drawn from the device, preventing freezing. If it be desired to use the hose close to the attachment without unwinding it, the valve may be opened by lifting the handle S up

and turning the stem P upward. This produces a hose-reel attachment which can be put in place readily by any one. The water-supply pipe is provided with the T. To this
5 the water pipe or stem of the attachment is attached and the device is ready for use. These attachments can be made and supplied as desired.

Having described my invention, what I
10 claim is—

A hose-reel attachment for water-supply pipes, consisting of a water-pipe having a perforated end, a valve in such pipe having a stem which projects out of the perforated end

of the pipe and is provided outside of the pipe 15 with a handle, a hose-reel secured to such pipe and having a chambered spider around the perforated end of the pipe, an opening in the chamber with a pipe leading therefrom, and an arm at the top of the spider, whereby 20 is formed an independent hose-reel attachment complete in itself, as set forth.

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

JAMES H. LUTHER.

Witnesses:

S. A. TERRY,
J. H. RIGGLES.