Lee & Alden,

Hose Reel,

No. 36,438, Patented Sept. 9, 1862.

Fig. 2.

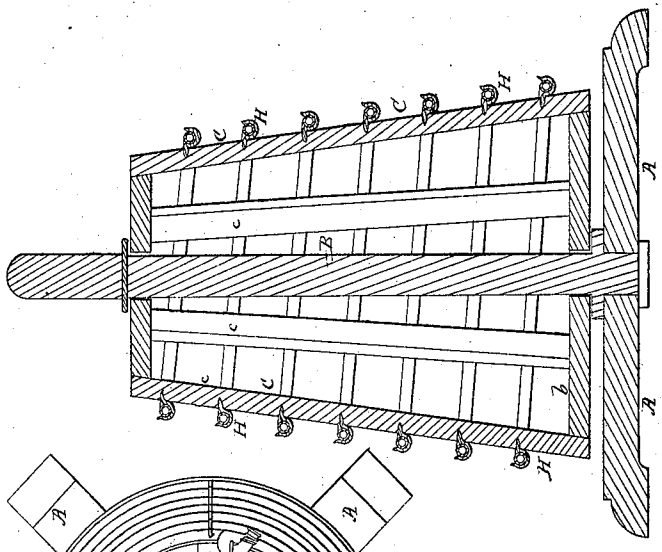


Fig. 3.

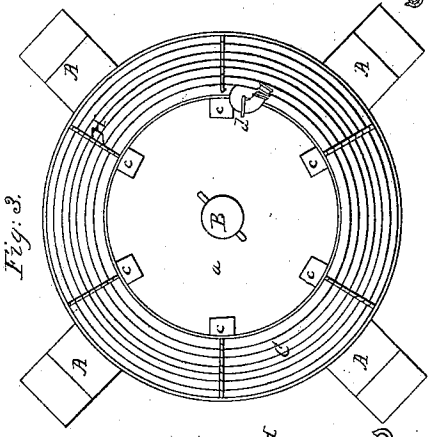
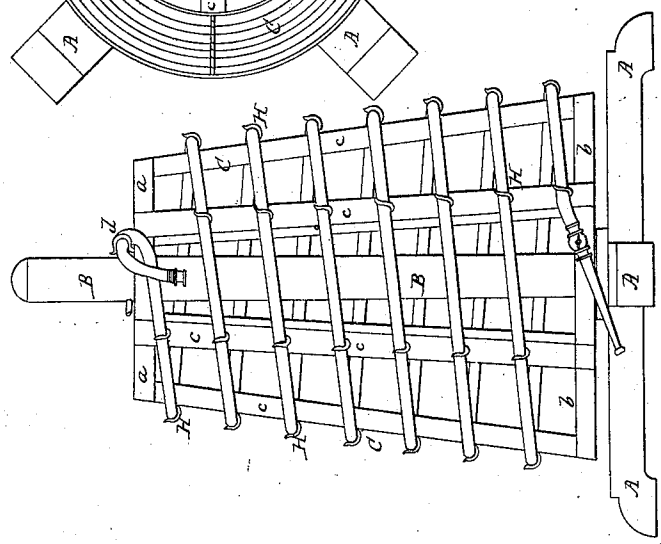


Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

BENJAMIN F. LEE, OF NEW YORK, AND HENRY A. ALDEN, OF FISHKILL, NEW YORK, ASSIGNORS TO THE NEW YORK RUBBER COMPANY.

IMPROVEMENT IN HOSE-REELS.

Specification forming part of Letters Patent No. **36,438**, dated September 9, 1862.

To all whom it may concern:

Be it known that we, BENJAMIN F. LEE, of New York, in the county of New York and State of New York, and HENRY A. ALDEN, of Fishkill, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Hose-Drainers; and we hereby declare that the following is a full, clear, and exact description of the same.

Our invention relates to the production of a new device or implement, which we denominate a "hose-reel," for draining and holding hose-pipe after being used; and it consists in the combination, with a frame of conical, cylindrical, or other convenient form, capable of revolution on a vertical spindle, of supporting hooks or brackets arranged spirally, substantially as hereinafter shown and described.

The inconvenience attending the use of hose mainly consists in properly draining it and disposing of it during the intervals of time when not in use. The hose after being used is always filled with water, which if allowed to remain within the hose will soon cause it to rot or mold, besides rendering the hose very heavy and impracticable to be wound up and removed. To drain the hose, therefore, it is necessary to give it such inclination as will permit the water to flow out by virtue of its gravity. This is quite easy to do when the hose is short; but when it is long the operation of draining is always tedious and difficult, while water is often imprisoned in spite of every care that may have been taken. After the hose is drained it is generally wound into a coil, to do which with neatness and compactness is not only wasteful of time, but requires considerable practice. Our hose-reel is designed to obviate these inconveniences, and is calculated to effect the drainage of the hose while and by the act of its being neatly and compactly wound upon a supporting frame or standard.

To enable others to make and use our hose-reel, we shall now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a front elevation, Fig. 2 a sectional, and Fig. 3 a plan view, of our invention.

A in the drawings represents a pedestal, consisting of two pieces of timber jointed at their middles to form a cross and firmly supporting an upright spindle or axle, B, upon which, as center, revolves the frame C. The latter is composed of a top and bottom disk, *a* and *b*, which are united externally by ribs *c*. The lower disk is here shown of a diameter somewhat larger than the upper disk. This gives the frame the form of a cone; but this feature, though convenient, we do not deem essential.

To the ribs are fixed hooks or brackets H, in form curved more or less in conformity with the sectional form of the hose. These hooks or brackets are arranged in a continuous row, spirally winding up and around the frame.

The top disk may be provided with a hook, *d*, or bar, around which the hose may be wound.

The operation will be readily understood from the above description of the apparatus.

The hose after being used is wound up by first applying the muzzle to the lowest hook. The hose is then laid into the successive spirally-disposed hooks by following them up along the inclination of the helix formed by the hooks.

To facilitate the operation, the attendant is simply required to turn with one of his hands the reel, while with the other he lays down the hose on the hooks as they present themselves in their successive and spiral order.

The reel represented in the drawings will drain, if necessary, twice the length of hose there shown. To do this we begin to wind at the bottom, as above, and when arrived at the top we pass the hose round the perpendicular hook *d* and wind down again to the bottom, resting the hose on the same hooks as in going up. When winding the hose, or when wound up, every part of it will occupy such position in regard to the exit or end of the hose as to allow of the water that may be contained in it to drain completely.

Having thus described our invention, we claim—

A hose-reel embracing the combination, with a frame of conical, cylindrical, or other convenient form capable of revolution on a vertical spindle, of supporting hooks or brackets arranged spirally, substantially as herein shown and described.

In testimony whereof we have signed our names to this specification before two subscribing witnesses.

BENJN. F. LEE.
HENRY A. ALDEN.

Witnesses:
W. H. GERARD,
JAMES N. DICKEY.