# A. R. GUILDER.

## Reel for Drying and Draining Hose.

No. 163,374. Patented May 18, 1875.

*Fig 1.*

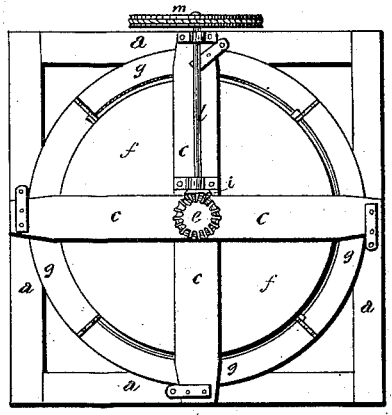



*Fig 2.*

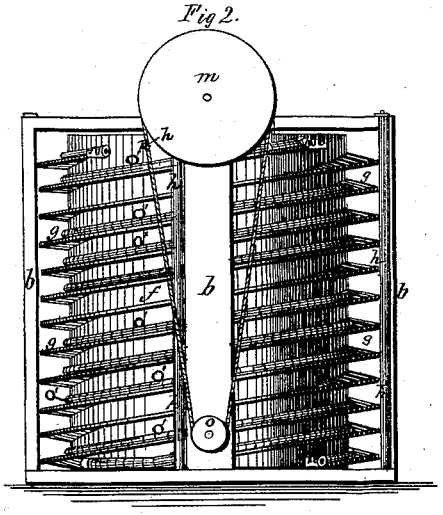
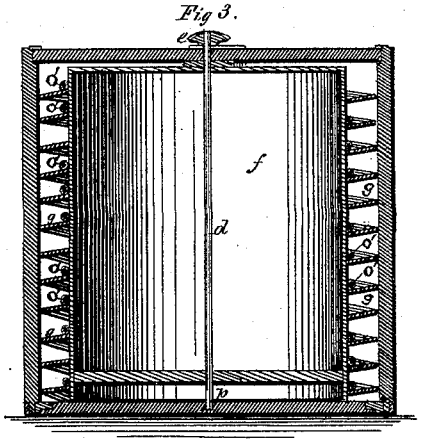



*Fig 3.*




WITNESSES.

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per F. A. Lehmann Attys

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# UNITED STATES PATENT OFFICE.

ABSALOM R. GUILDER, OF MINNEAPOLIS, MINNESOTA.

## IMPROVEMENT IN REELS FOR DRYING AND DRAINING HOSE.

Specification forming part of Letters Patent No. **163,374**, dated May 18, 1875; application filed April 7, 1875.

*To all whom it may concern:*

Be it known that I, ABSALOM R. GUILDER, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Reels for Drying and Draining Hose; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in reels for drying and draining hose; and it consists in forming spiral shelves around a hollow vertical cylinder, to which heat is applied, upon which the hose is wound in revolving the cylinder by suitably-arranged gearing, as will be more fully described hereafter.

The accompanying drawing represents my invention.

Figure 1 is a plan view of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a vertical section of the same.

*a* represents a square frame, having on each side a standard, *b*, the upper ends of which standards are connected by cross-pieces *c*, that extend across from standard to standard at right angles to each other. Passing downward through these cross-pieces is the shaft *d*, its lower end being supported by a cross-piece, *p*, in the frame *a*, having at its upper end, just above the cross-pieces *c*, the beveled wheel *e*. The shaft *d* is the axis of the hollow vertical cylinder *f*, which cylinder is attached to the shaft, so that both revolve together. The cylinder occupies the place between the standards and the top and bottom cross-pieces, so that the outside of the shelves, which are wound spirally around the cylinder, almost touch the standards. A vertical friction-roller, *h*, is placed by the side of each one of the standards, for the purpose of preventing the hose *o'* from sliding from the shelves, and from coming in contact with the standards, whereby they might be injured, both by winding and unwinding them from the reel. The shelves *g* are of a suitable width for one or more sections of hose, *o'*, to be placed side by side upon them, and have at their termination suitable arrangements to secure the ends of the hose *o'*. The beveled wheel *e*, on the upper end of the shaft *d*, is geared to a corresponding pinion, *i*, at the end of the shaft *l*, which shaft carries upon its other end the large pulley *m*, over which passes the cord *n*, downward over the smaller pulley *o*. By means of this cord and gearing the cylinder may be made to revolve in either direction desired.

The lower end of the cylinder being open, steam, either free or in tubes, may be introduced, should it become necessary, during cold weather, to thaw the ice from the hose *o'*, or to soften the hose *o'* when frozen. There being four or more separate coils of shelves, the ones within the others, a large number of sections of hose *o'* may be placed upon them at the same time, and either one of them removed without interfering with the others.

Having thus described my invention, I claim—

1. A device for drying and draining hose by the application of heat, consisting of the combination of the cylinder *f* and the spiral shelves *g*, for the support of the hose *o'*, substantially as shown.

2. The combination of the cylinder *f*, shelves *g*, friction-rollers *h*, and a gearing for revolving the drying and heating cylinder, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of March, 1875.

ABSALOM R. GUILDER.

Witnesses:
Z. E. BROWN,
C. E. WALES.