No. 790,176. PATENTED MAY 16, 1905.

C. M. BOWMAN.

HOSE DRYING DEVICE.

APPLICATION FILED OCT. 17, 1904.

2 SHEETS—SHEET 1.

Fig. 1.

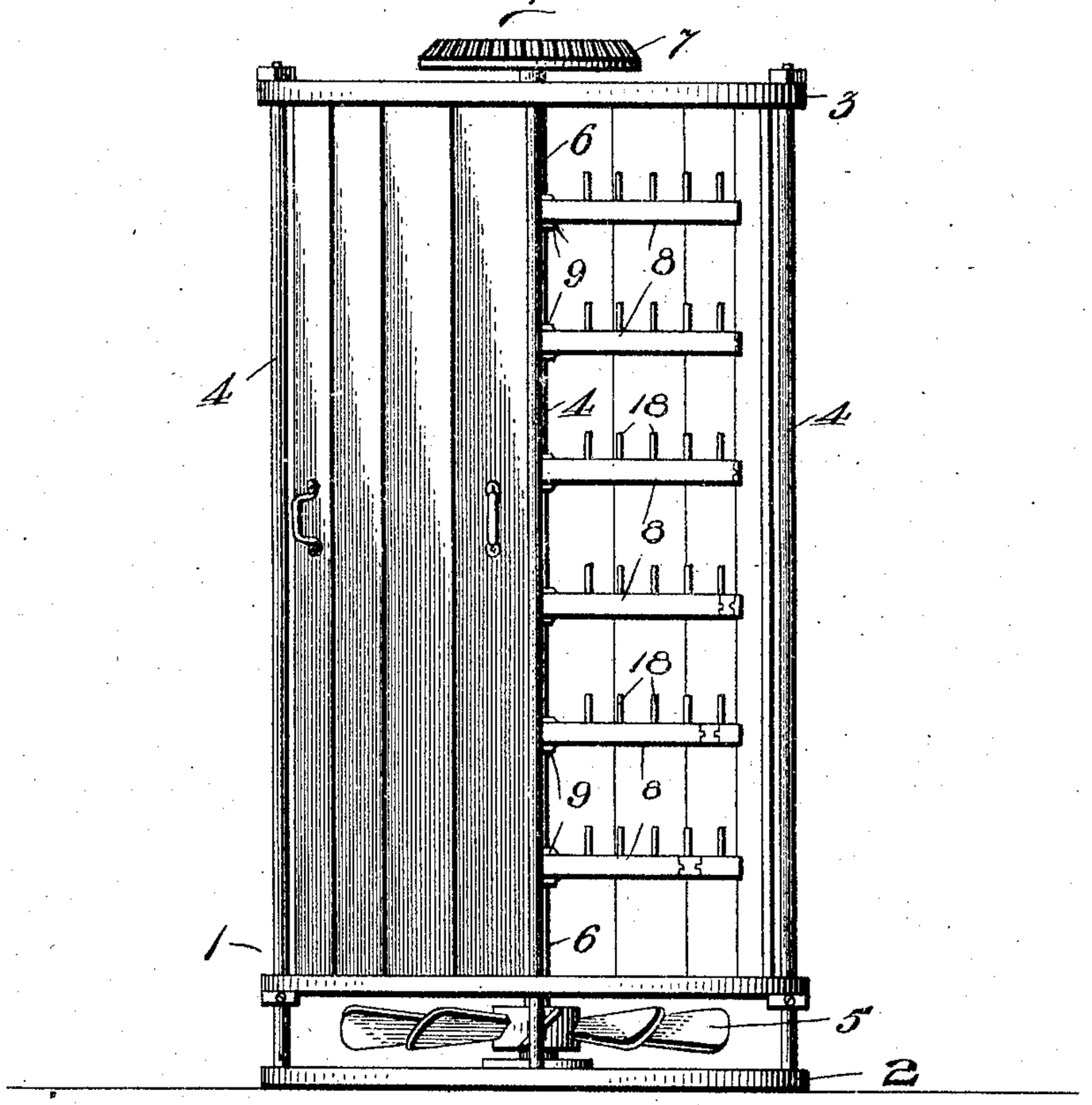
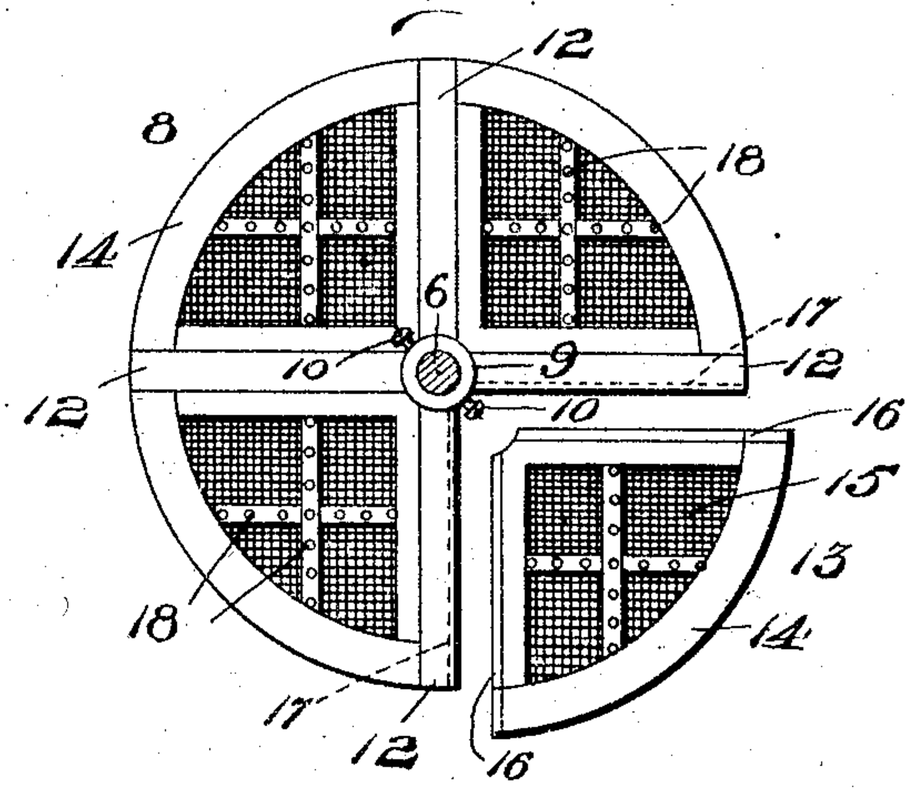


Fig. 3.



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HOSE DRYING-DEVICE.

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2 SHEETS—SHEET 2.

Fig. 2.

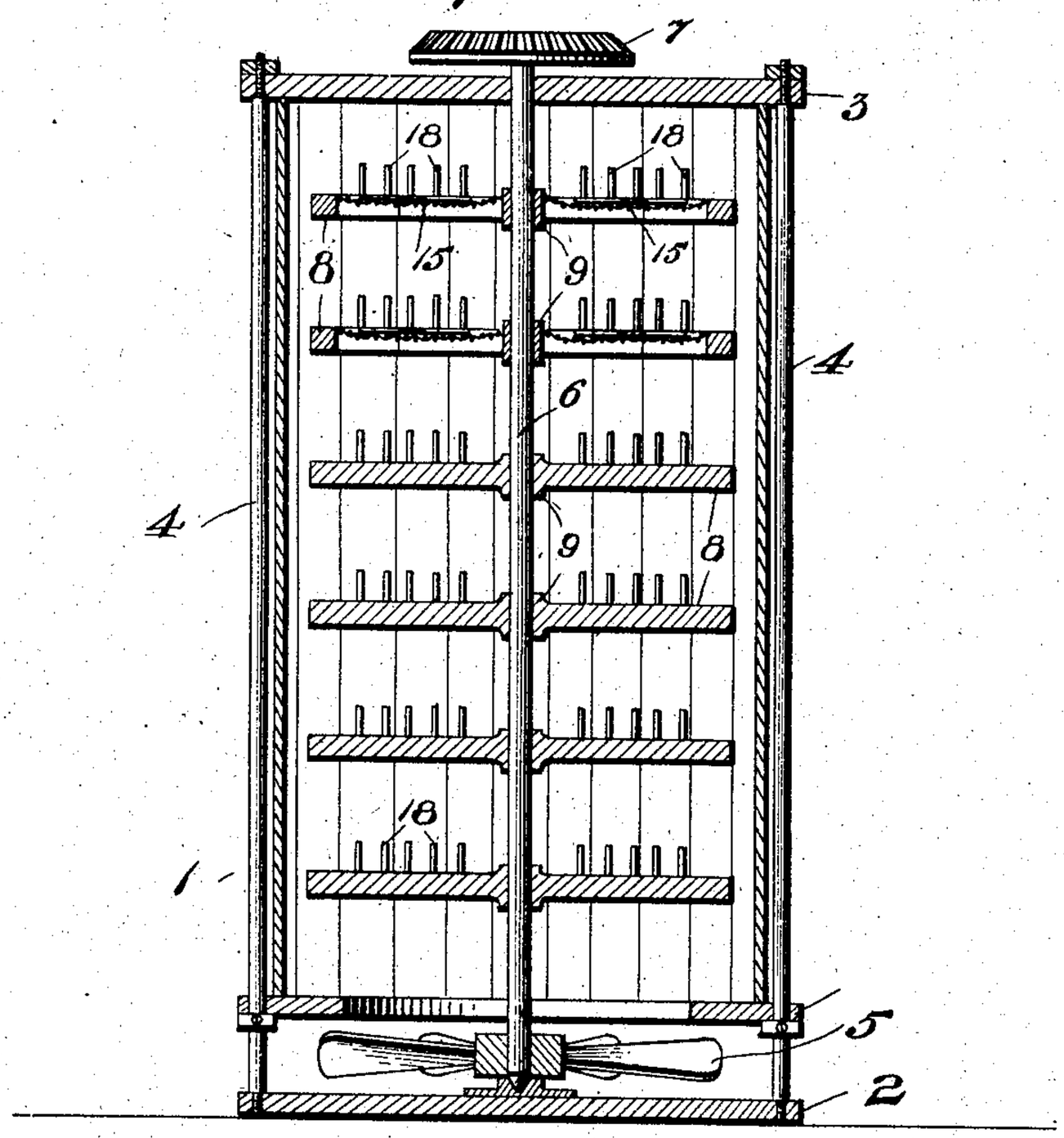
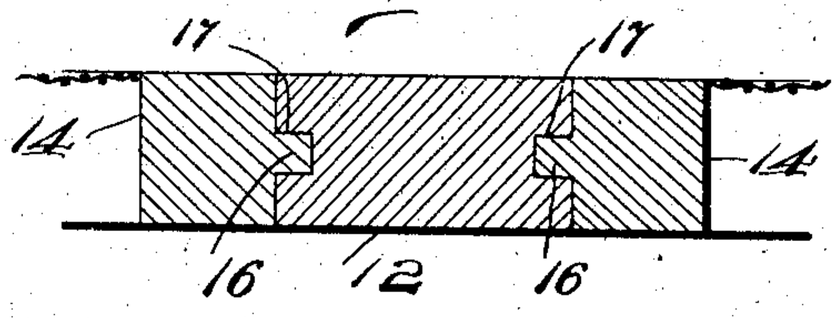


Fig. 4.



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No. 790,176. Patented May 16, 1905.

UNITED STATES PATENT OFFICE.

CHARLES M. BOWMAN, OF LEBANON, PENNSYLVANIA, ASSIGNOR TO THE ROTARY FIRE HOSE DRIER CO., OF LEBANON, PENNSYLVANIA.

HOSE-DRYING DEVICE.

SPECIFICATION forming part of Letters Patent No. 790,176, dated May 16, 1905.

Application filed October 17, 1904. Serial No. 228,841.

To all whom it may concern:

Be it known that I, CHARLES M. BOWMAN, a citizen of the United States, residing at Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Hose-Drying Devices; 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.

This invention relates to improvements in drying devices for fire and other hose.

The object of the invention is to provide a hose-drying device on which may be supported for drying a maximum amount of hose in a minimum amount of space, means being provided whereby air will be blown or forced through the hose on said device, thereby quickly drying the same.

A further object is to provide a device of this character having detachable hose-holding shelves upon which the hose-sections may be quickly and conveniently arranged, after which said shelves are replaced in the supporting device.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation of the improved hose-drier with one of the sections of the covering or casing removed. Fig. 2 is a vertical sectional view of the same. Fig. 3 is horizontal sectional view taken above one of the hose-supporting shelves; and Fig. 4 is detail sectional view through one of the supporting-arms of the shelves, showing the manner in which the quarter-sections of the shelves are removably supported.

Referring more particularly to the drawings, 1 denotes a supporting-frame consisting of a base 2 and a top plate 3, said base and top plate being connected by vertically-disposed standards 4.

To the lower portion of the frame 1, above the base 2, is arranged a horizontally-disposed revolving fan 5, said fan being preferably mounted on a centrally-disposed shaft 6, the lower end of which has a stepped bearing in the base 2. The upper end of the shaft 6 projects through a centrally-disposed bearing-aperture formed in the top plate 3, and on the upper end of the shaft is fixedly mounted a beveled gear-wheel 7 or other suitable device whereby said shaft may be revolved.

On the shaft 6 is arranged a series of horizontally-disposed shelf-frames 8, said frames being spaced apart and secured to said shaft in any suitable manner and preferably consist of a central band or collar 9, which surrounds the shaft and is secured thereto by means of set-screws 10. On said bands or collars 9 are formed laterally-projecting arms 12. Each of the bands or collars 9 are preferably provided with four of said arms 12, which are arranged at diametrically opposite points, thereby forming between themselves quarter-sections in which are adapted to be arranged triangular hose-supporting shelf-sections 13. Each of said shelf-sections 13 preferably consists of an open triangularly-shaped frame 14, which is covered by a wire-netting or other openwork material 15. The side pieces of the triangular frames 14 have formed on their outer edges horizontally-disposed tongues 16, which are adapted to be engaged with a groove 17, formed on the inner edge of the arms 12 of the shelf-sections 13, whereby said open-work frames 14 are removably supported by said arms. The frames 14 are of such size as to permit the coiling of the sections of fire-hose upon each of the same, and formed thereon are upwardly-projecting pins 18, which are arranged in concentric order and serve to hold the coils of pipe separated on said frame, thereby permitting air to freely pass between said coils of pipe.

In placing the pipe-sections upon the frames 14 said frames are removed from the supporting-arms and placed upon the floor or ground, in which position the hose-sections may be conveniently and easily coiled upon the same, after which said sections are again placed in

the arms of the supporting-frames. This arrangement greatly facilitates the placing of the hose upon the shelves of the drier.

A hose-drying device constructed and arranged as herein shown will be capable of holding a large quantity of hose and will occupy but a small amount of space and may be used not only as a drying device, but also as a convenient receptacle for storing the sections of hose, keeping the same in order, so that they may be readily removed for use.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In a hose-drier, the combination with a supporting-frame having a central vertically-disposed shaft, of a series of shelf-frames arranged on said shaft one above the other, said frames comprising centrally-disposed annular rings or collars adapted to be secured to said shaft, laterally-projecting arms arranged on said collars, reticulated shelf-sections adapted to be removably engaged with and supported by said arms, upwardly-projecting pins on said shelf-sections, and means whereby a current of air is forced through said shelves, substantially as described.

2. In a hose-drier, the combination with a supporting-frame having a central vertically-disposed shaft, of a series of shelf-frames arranged on said shaft one above the other, said frames comprising centrally-disposed annular rings or collars adapted to be secured to said shaft, laterally-projecting arms arranged on said collars, reticulated shelf-sections adapted to be removably engaged with and supported by said arms, upwardly-projecting pins on said shelf-sections, and a fan revolubly mounted on said shaft below said shelves whereby a current of air may be forced upwardly through the same, substantially as described.

3. In a hose-drier, the combination with a supporting-frame having a central vertically-disposed shaft, of a series of shelf-frames arranged on said shaft one above the other, said frames comprising centrally-disposed annular rings or collars adapted to be secured to said shaft, laterally-projecting arms arranged in said collars, reticulated shelf-sections adapted to be removably engaged with and supported by said arms, cross-bars on said shelf-sections, upwardly-projecting pins arranged on said cross-bars, whereby the coils of hose laid thereon will be held spaced apart, and a revoluble fan whereby a current of air is forced through said shelves and between said coils of pipe, substantially as described.

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

CHARLES M. BOWMAN.

Witnesses:

THOS. J. SHAAK,

SANSOM E. BATDORF.