

No. 774,305.

PATENTED NOV. 8, 1904.

C. M. BOWMAN.

HOSE DRIER.

APPLICATION FILED AUG. 8, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

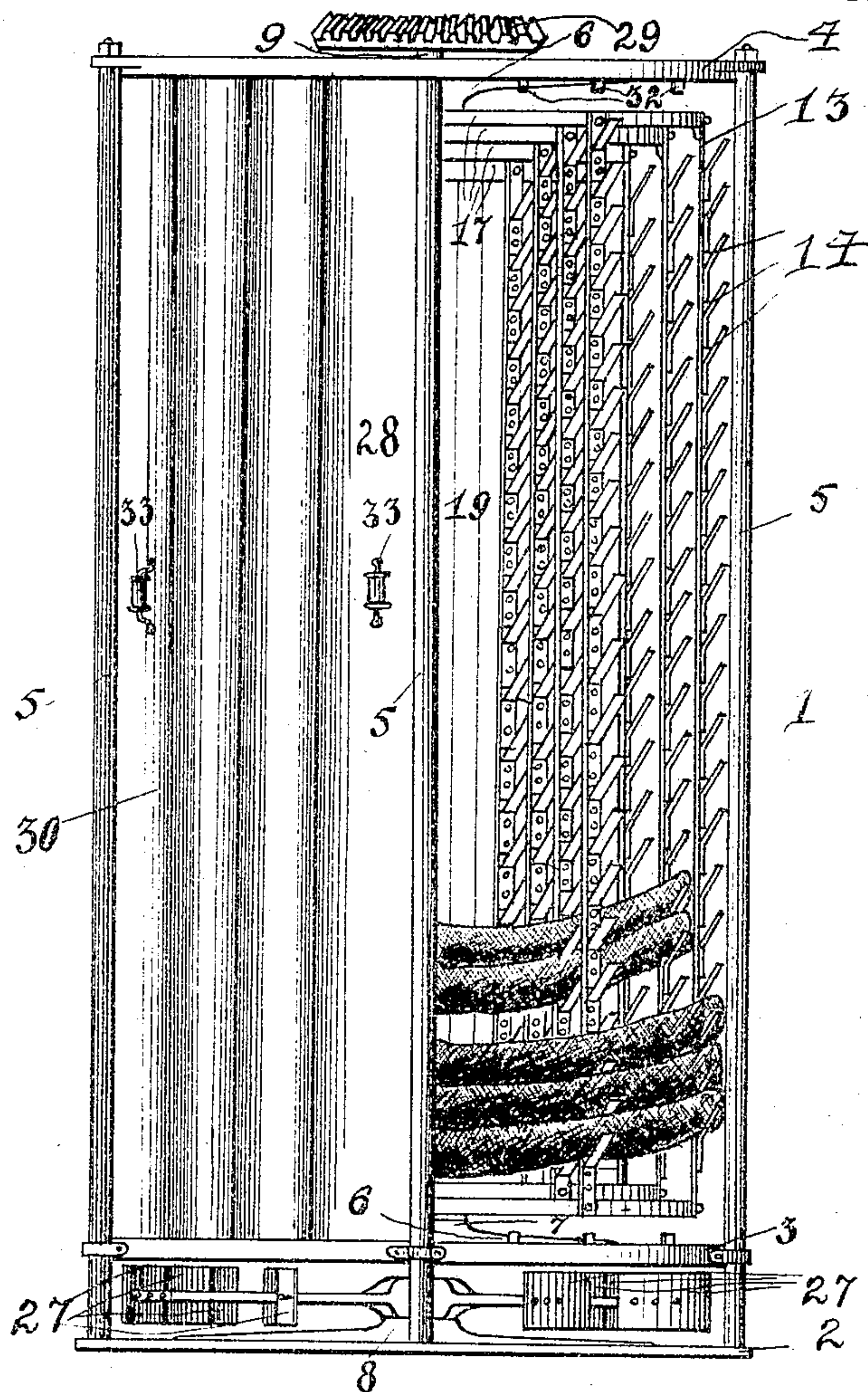


Fig. 1.

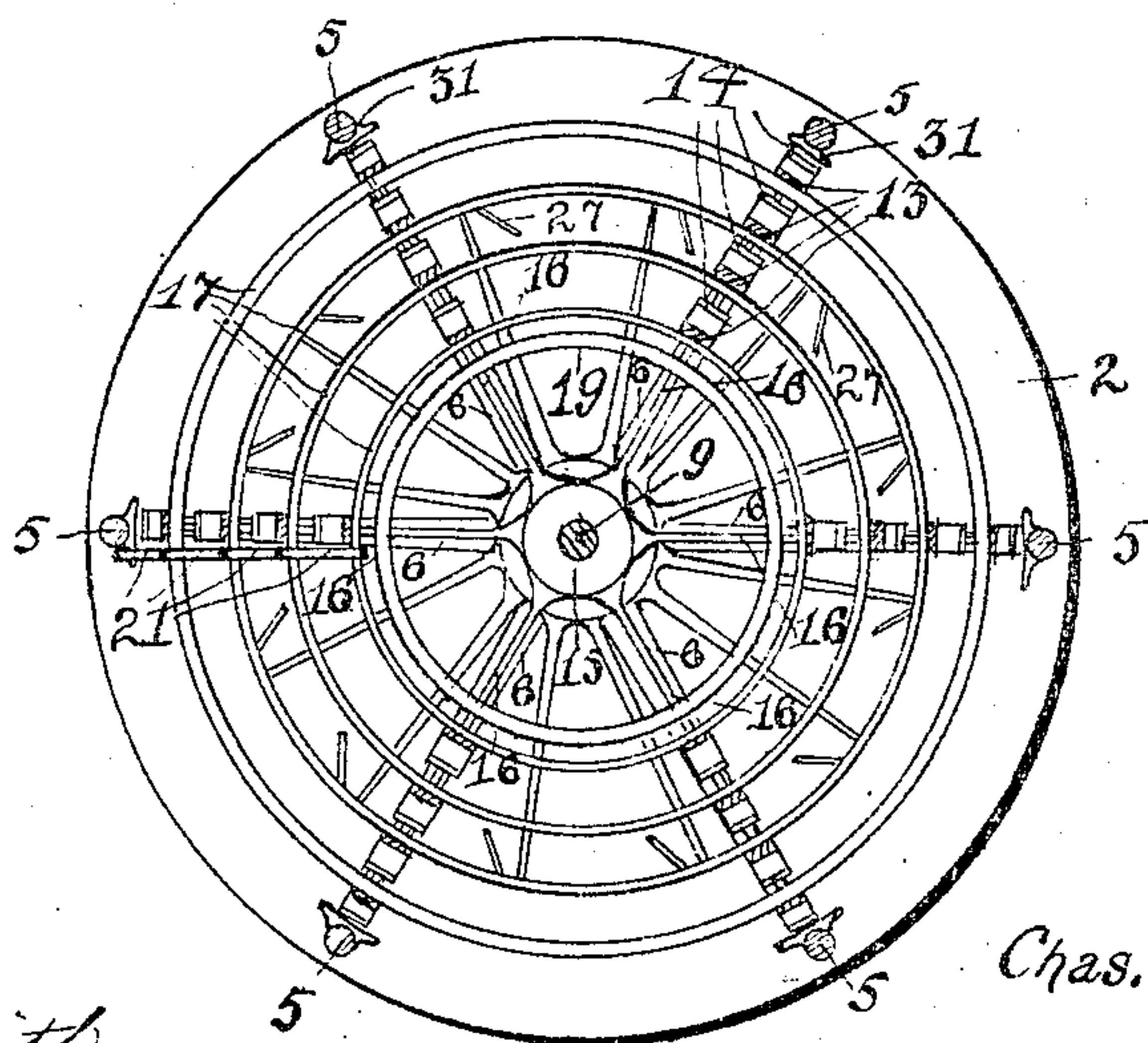


Fig. 3.

Witnesses  
Forrest Smith.  
C. H. Griebauer.

Inventor  
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By *A. R. Wilson*  
Attorney



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2 SHEETS—SHEET 2.

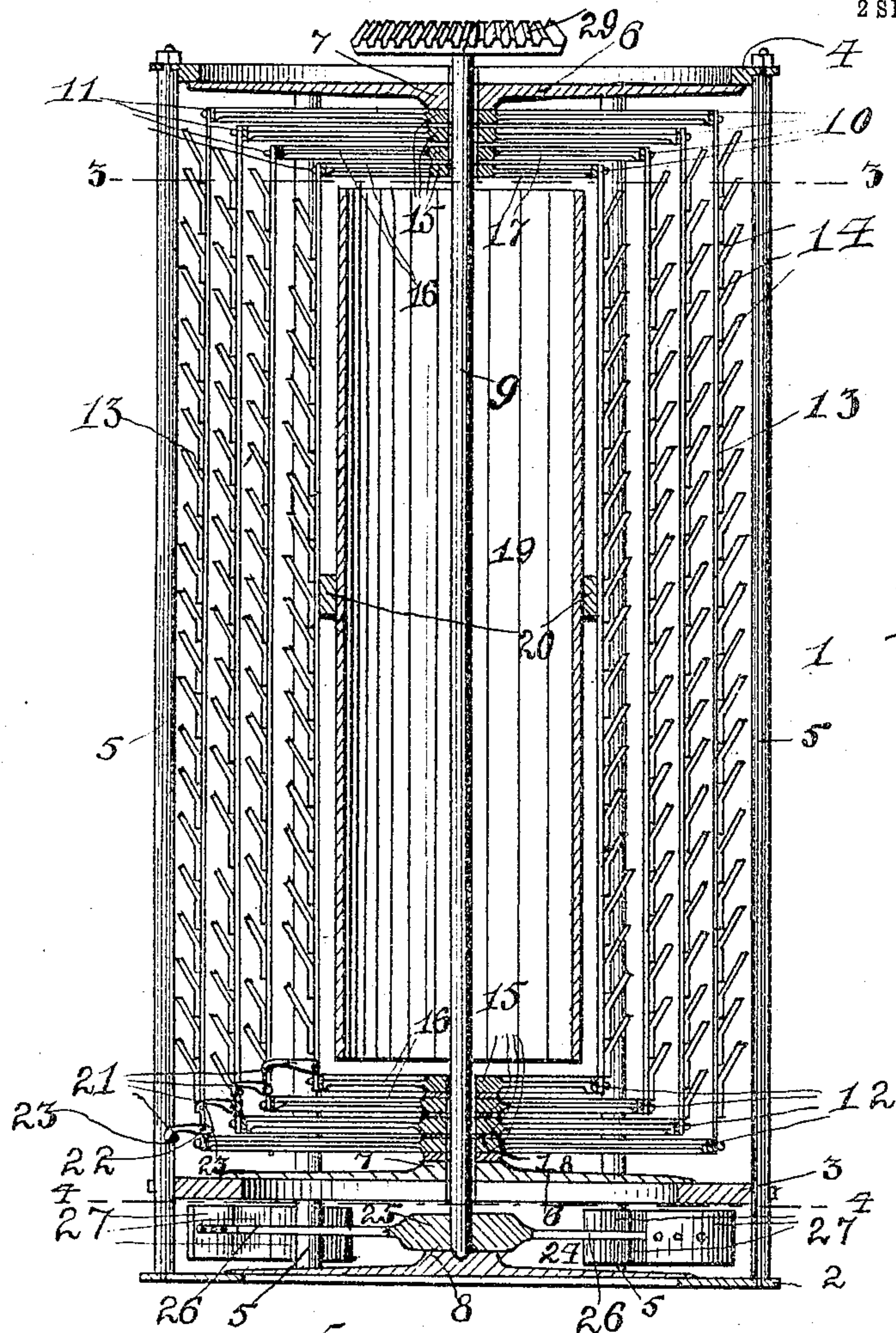


Fig. 2.

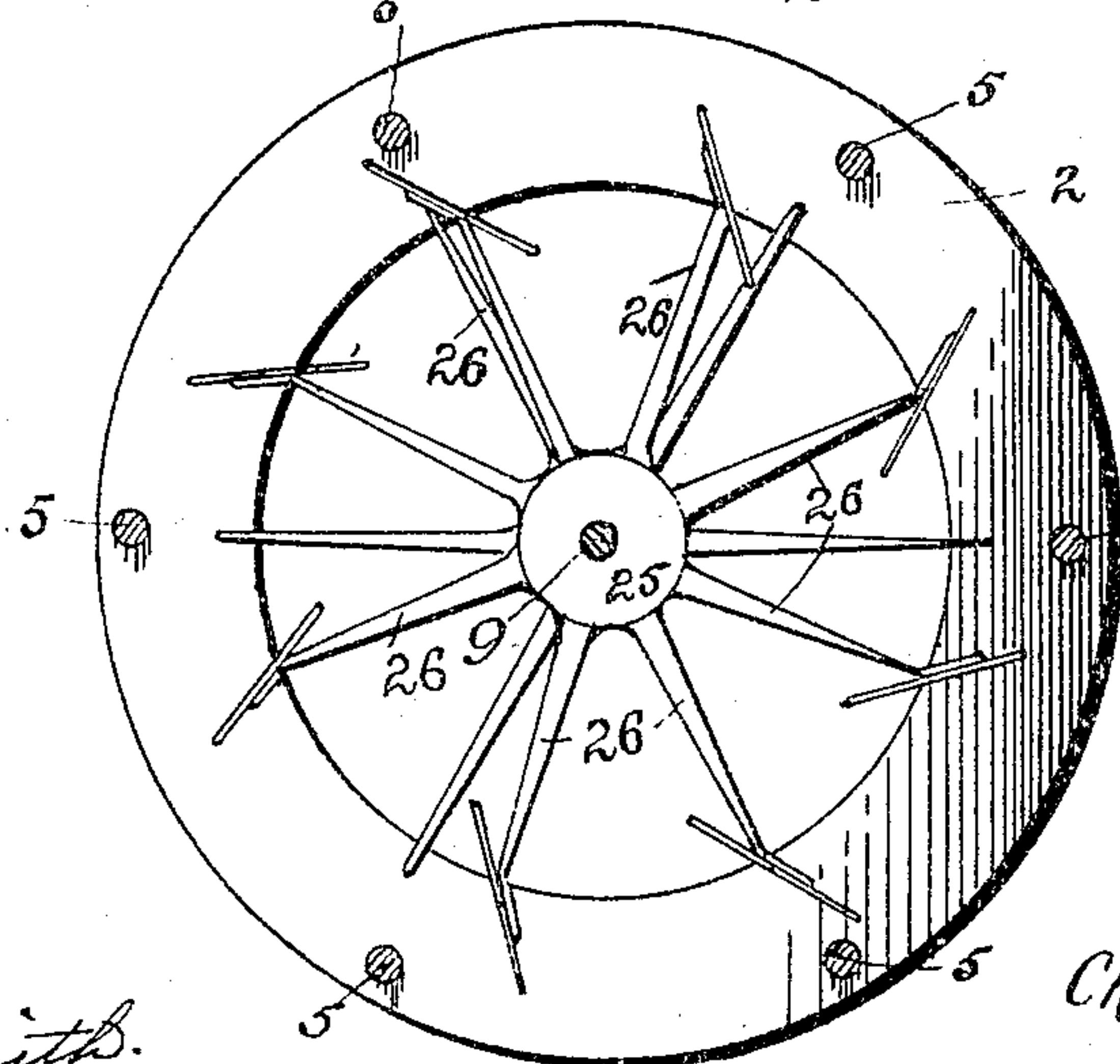


Fig. 4.

Witnesses  
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# UNITED STATES PATENT OFFICE.

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

## HOSE-DRIER.

SPECIFICATION forming part of Letters Patent No. 774,305, dated November 8, 1904.

Application filed August 8, 1904. Serial No. 219,962. (No model.)

*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-Driers; 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  
10 appertains to make and use the same.

My invention relates to improvements in hose-driers; and it consists in the peculiar construction, combination, and arrangement of parts hereinafter fully described and claimed.

15 The object of the invention is to provide a device of this character which will be simple and compact in construction, durable in use, efficient in operation, and comparatively inexpensive to manufacture.

20 The above and other objects, which will appear as the nature of my invention is better understood, I accomplish by the construction illustrated in the accompanying drawings, in which—

25 Figure 1 is a side elevation of my improved hose-drier with one of the sections of the covering or casing removed. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a horizontal sectional view taken on the line 3 3  
30 of Fig. 2. Fig. 4 is a similar sectional view taken on the line 4 4 of Fig. 2.

Referring to the drawings by numeral, 1 denotes the main frame of the drier, which consists of a base-plate 2, a lower ring 3, and a  
35 top ring 4, united by a series of uprights 5, the lower ring 3 being spaced a short distance above the base 2. Both of the rings 3 and 4 are formed with arms 6, which radiate from centrally-disposed bearings 7, which aline  
40 with each other and with a step-bearing 8, provided in the center of the base 2. In said bearings 7 and 8 is revolubly mounted a vertical shaft 9, which carries a series of concentrically-disposed rotary hose racks or reels 10,  
45 as clearly shown in Fig. 2 of the drawings. Each of said racks or reels 10 comprises upper and lower reel-heads 11 and 12, united by vertical bars 13, upon the outer faces of which are secured hose-supporting means 14. Each  
50 of said reel-heads consists of a hub 15, formed

with radiating arms 16, having their outer ends united by a circular rim 17, to which latter the bars 13 are secured. The reel-heads are disposed one above the other, and their hubs 15 turn freely upon the shaft 9, the hubs 55 of the lower heads 12 being supported upon collars 18, fixed upon said shafts at suitable distances apart, or, if desired, they may be supported upon each other and have suitable washers interposed, as will be readily understood. 60

The hose-supporting devices 14 may be of any suitable form and construction. As shown in the drawings, they consist of angularly-disposed fingers which project out- 65 wardly and upwardly and which may be formed integral with said bars or secured thereon by any suitable fastening means. The sections of hose to be dried are wound around the reel and are supported upon the 70 fingers 14, as shown in the drawings.

If desired, I may secure within the innermost rack or reel 10 a cylinder or drum 19 for a purpose presently explained. Said cylinder or drum 19 is supported by and spaced 75 from the bars 13 of the innermost rack or reel by short arms 20, as shown.

The racks or reels 10 are adapted to be locked to each other and to the main frame 1 to hold one or more of them against rotation when it 80 is desired to apply or remove one or more hose-sections to or from one of the inner racks or reels, and for doing this any suitable means may be provided. As shown in Fig. 2 of the drawings, I have provided a series of hooks 85 or latches 21, each of which has one of its ends pivoted, as at 22, upon one of the bars 13 of one of the racks or reels and its opposite hooked end engaged with a pin or eye 23 upon one of the bars 13 of the adjacent outer 90 rack or reel. The latch upon the outermost rack or reel is adapted to engage a pin or eye upon one of the uprights 5 of frame 1, so that one or more of said racks or reels may be locked against rotation, as desired. 95

Secured upon the shaft 9 in the space between the lower ring 3 and the base 2 is a fan 24, which is adapted to be rotated to hasten the drying of the hose-sections upon the rack or frames. Said fan comprises a hub 25, 100



fixed to said shaft and provided with radiating arms or spokes 26, upon the outer ends of which are secured blades 27, which are disposed directly beneath the hose-supporting fingers upon the bars 13. Said blades 27 are disposed angularly, so that when the shaft 9 is rotated a current or blast of air will be drawn downwardly around the hose-sections and between the cylinder 19 and an outer sectional casing 28, secured upon the frame 1. Any suitable means may be provided for rotating the shaft 9. As shown, I have provided upon the upper end of the shaft a gear-wheel 29, which is adapted to be driven by a motor of any desired form, but preferably by an electric motor mounted upon the top ring 4 of the frame.

The outer casing or covering 28 consists of a series of curved sections 30, which are removably secured between the uprights 5 and the rings 2 and 3 of the frame. Each of said sections 30 is seated in recesses or grooves 31, formed in the uprights 5, and is in contact with stop-lugs 32, formed adjacent to the edges of the rings 2 and 3. Said sections 30 are provided with handles 33 and with suitable fastening devices for securing them in the frame.

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

1. A hose-drier comprising a suitably-

mounted vertical shaft, a plurality of concentrically-disposed hose racks or reels mounted to rotate upon said shaft independently of one another, and means to lock said hose racks or reels together, substantially as described.

2. A hose-drier having a series of concentrically-disposed hose racks or reels mounted to rotate independently of each other, and means for locking said racks or reels to each other, substantially as described.

3. A hose-drier having a series of concentrically-disposed hose racks or reels mounted to rotate independently of each other, and means for locking one or more of said racks or reels against movement, substantially as described.

4. A hose-drier having a series of concentrically-disposed hose racks or reels mounted to rotate independently of each other, and latches for locking said racks or reels against movement, substantially as described.

5. A hose-drier comprising a suitable frame, or casing, a vertically-disposed shaft mounted to rotate therein, a fan upon said shaft, a hose rack or reel loosely mounted upon said shaft above said fan, and means for securing said rack or reel to said frame or casing, substantially as described.

6. In a hose-drier, a frame comprising upper and lower plates or rings formed with stops, uprights uniting said plates or rings and formed with recesses and a sectional casing or cover removably secured in said recesses and engaging said stops, 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,  
E. O. HARTMAN.