

No. 766,985.

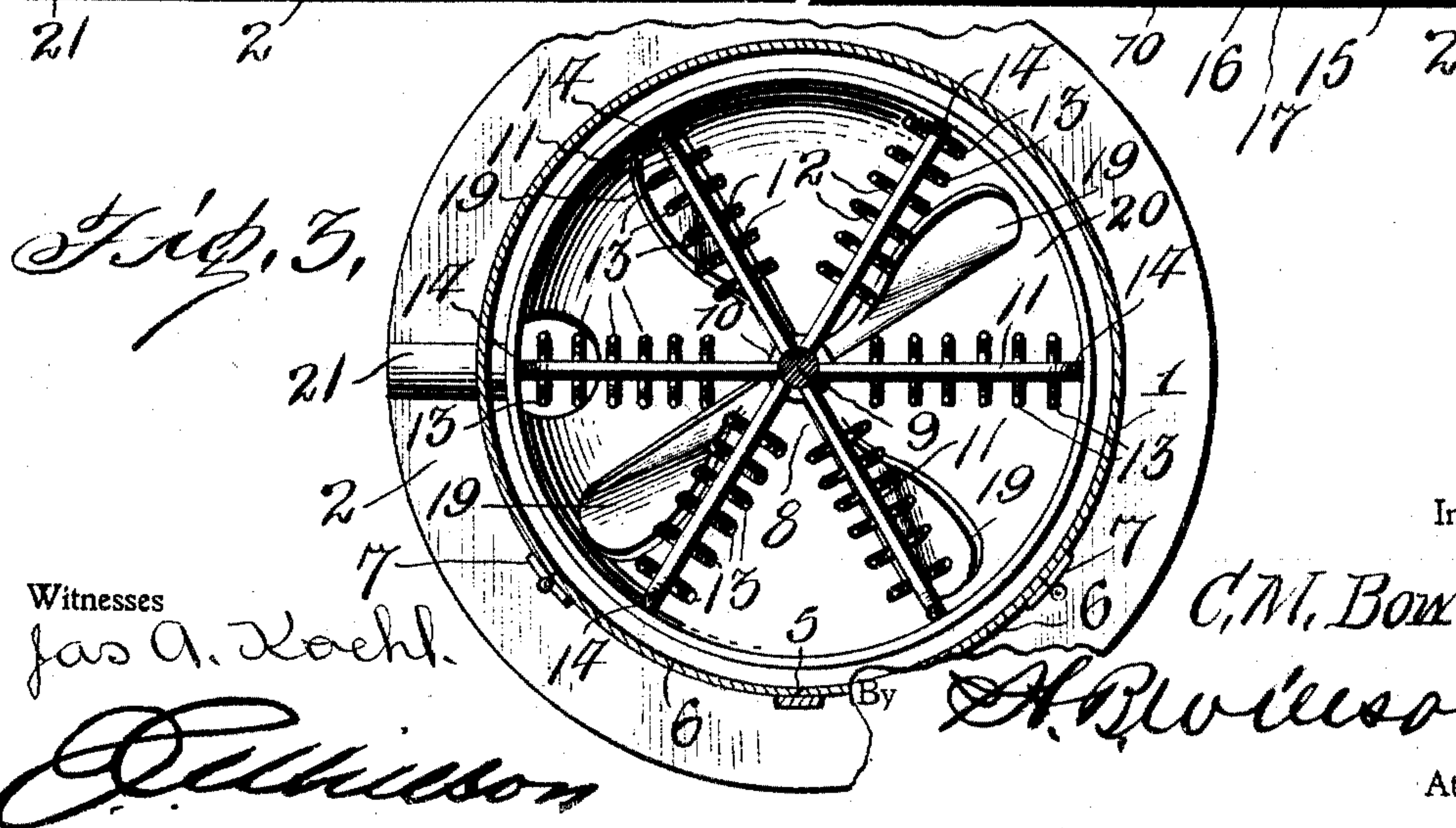
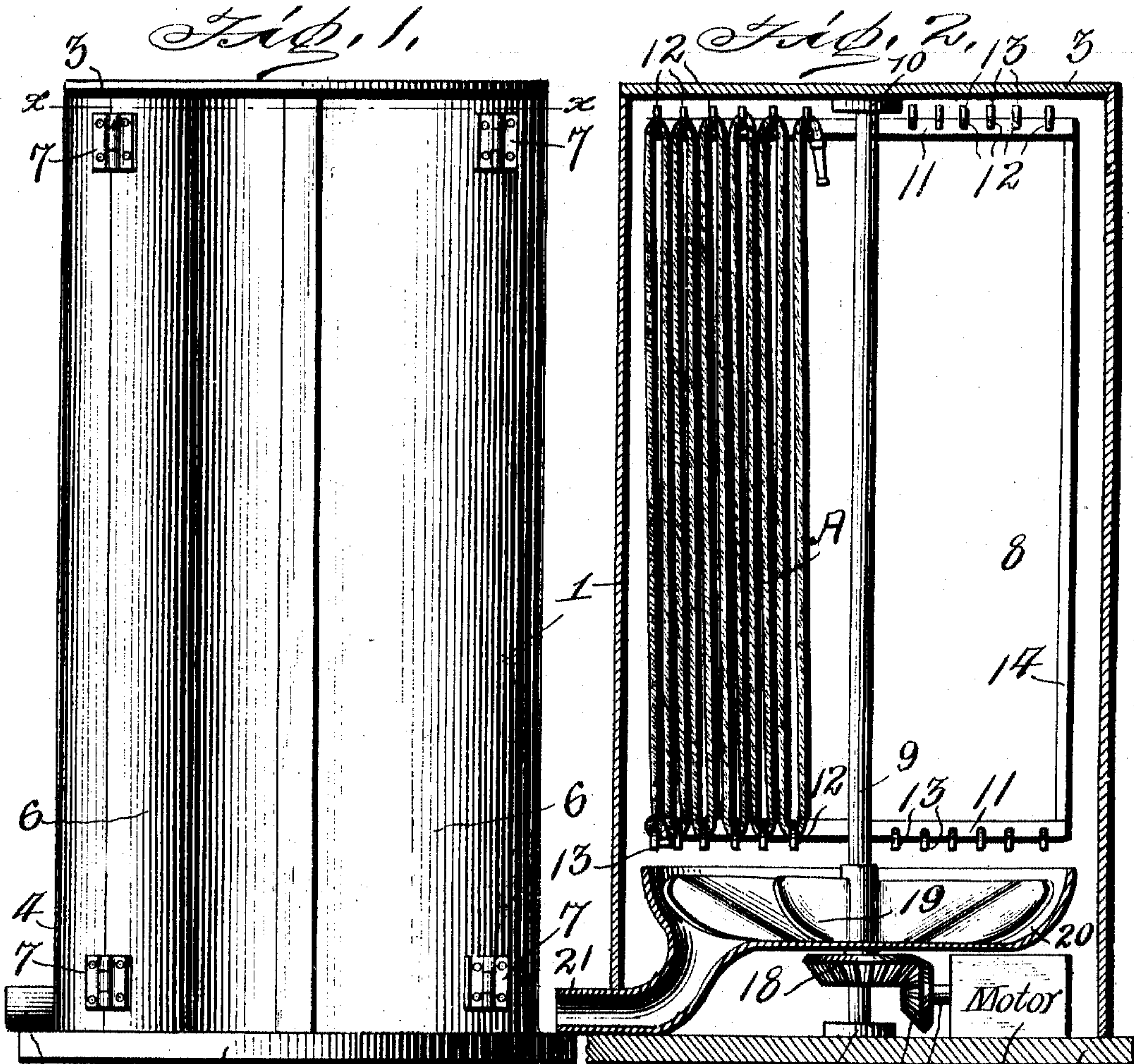
PATENTED AUG. 9, 1904.

C. M. BOWMAN.
HOSE DRIER.

APPLICATION FILED NOV. 5, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses

for A. Koehl.

C. M. Bowman

Inventor

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By *A. B. Wilson*

Attorney

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2 SHEETS—SHEET 2.

Fig. 4

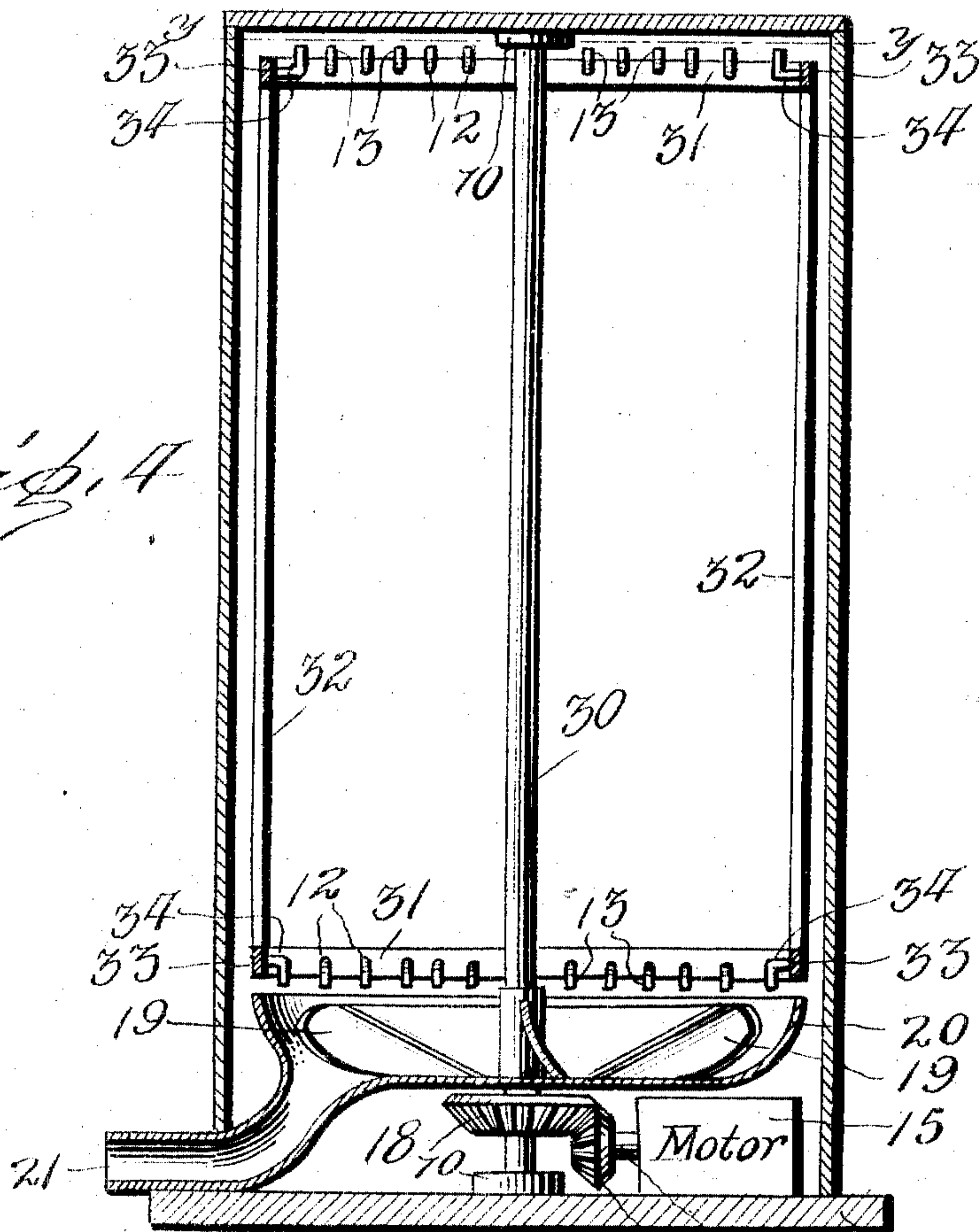
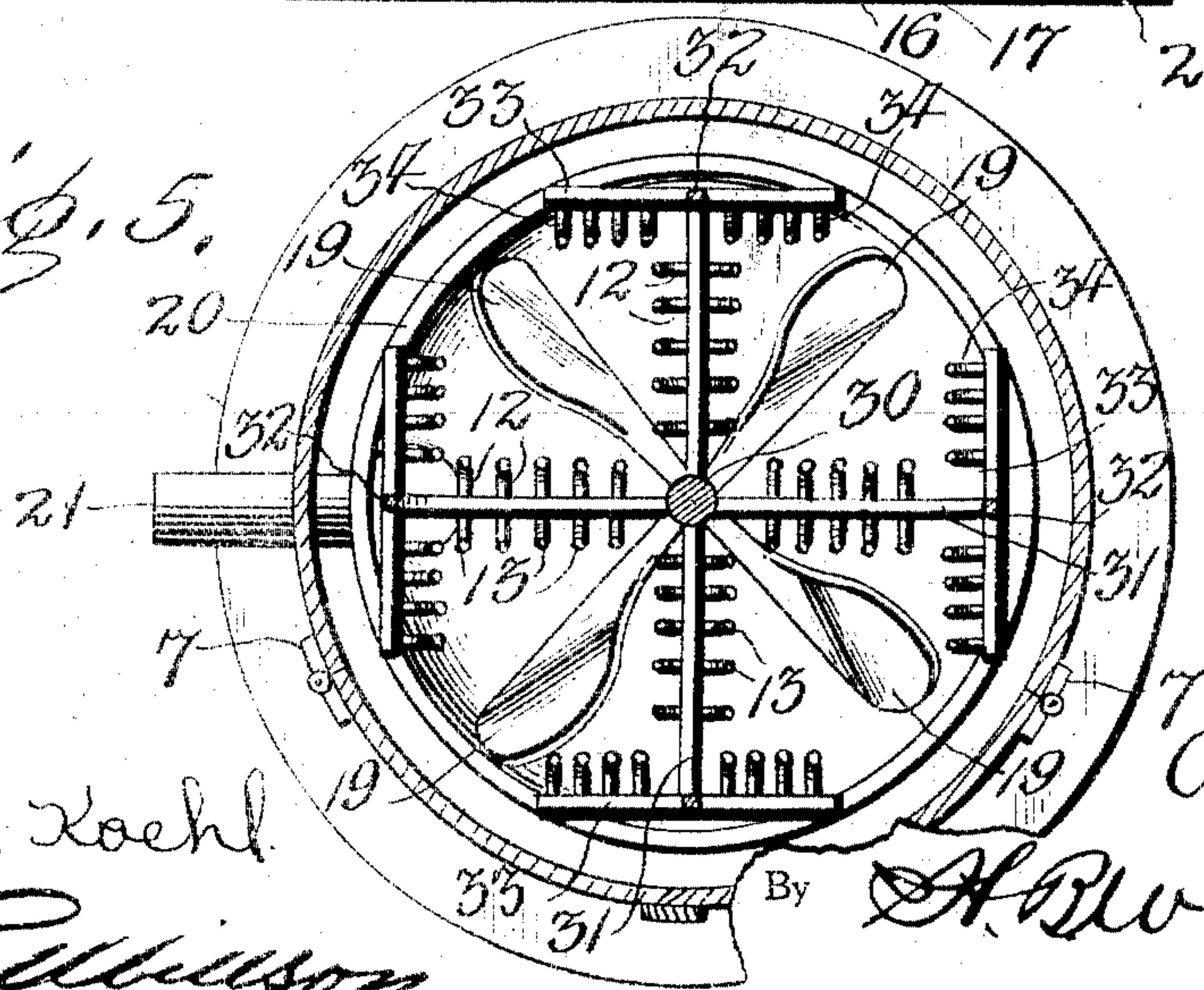


Fig. 5



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES MICHAEL BOWMAN, OF LEBANON, PENNSYLVANIA.

HOSE-DRIER.

SPECIFICATION forming part of Letters Patent No. 766,985, dated August 9, 1904.

Application filed November 5, 1903. Serial No. 179,952. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MICHAEL 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 appertains to make and use the same.

This invention relates to hose-driers of that class in which the hose-sections are supported upon a rotary rack or stand in an inclosed casing while being subjected to the action of a drying medium.

The object of my invention is to provide a simple, durable, and inexpensive device of this character which will occupy but little space and at the same time be capable of supporting a great number of hose-sections. With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved hose-drier. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a horizontal sectional view taken on the line *xx* of Fig. 1. Fig. 4 is a vertical sectional view of a modified form of hose-supporting rack. Fig. 5 is a horizontal sectional view taken on the line *yy* of Fig. 4.

Referring to the drawings by numerals, 1 denotes an inclosed casing preferably constructed of wood and in cylindrical form and comprising a base or bottom 2, a top 3, and a curved side 4, provided with an opening 5, which is closed by swinging doors 6, hinged, as at 7, to the side 4. Mounted concentrically within said casing is a rotary hose-supporting rack or stand 8, which comprises a vertical shaft 9, mounted to rotate in bearings 10, secured to the top and bottom of said casing. Projecting radially and at right angles from the shaft 9 adjacent to its upper end is a set or series of arms or bars 11, the opposite sides of which latter are provided with rows of spaced pins or teeth 12, which are disposed in a horizontal

plane parallel to each other and at right angles to the arm or bar upon which they are secured. The extreme end of each of said pins or projections is bent at right angles and preferably upwardly to form a hook 13.

Any desired number of arms 11 may be provided and any number of pins 12 may be attached to or formed upon said arms; but I preferably provide six arms, as shown in Figs. 1 to 3 of the drawings. Below the upper set or series of arms or bars 11 is a lower set or series which is identical in construction to the upper set, the arms of the lower set being directly beneath or alining with the arms of the upper set, and the outer ends of each alining pair of arms being connected by a vertical brace-rod 14. The hooked ends of the pins or teeth upon the arms or bars of the lower set project downwardly instead of upwardly. It will be seen that these arms with their projecting pins form comb-bars, upon the teeth of which the hose A is folded and supported, as shown in Fig. 1. One hose-section is folded upon the pins or teeth on the same side of each alining pair of arms or bars, and the hooked ends on said pins or teeth will prevent the casual displacement of the folds of the hose. The hose thus supported will occupy but little space and is entirely exposed to permit it to be readily dried.

The shaft may be rotated in any suitable manner, a motor 15 of any desired type being shown mounted upon the bottom of the casing and geared to the shaft 9 by means of a beveled gear 16 upon its drive-shaft 17 meshing with a similar gear 18, fixed to the shaft 2 adjacent to its lower end. The rotation of the rack or stand will create currents of air which will hasten the drying of the hose, and in order to increase these air-currents a fan, comprising four curved blades 19, is attached to the shaft 9 immediately below the lower set of arms 11. The fan is inclosed in an open-top casing 20, which directs the hot air, cold air, or other drying medium drawn in through a pipe 21 upwardly against the supported hose-sections, as clearly shown in Figs. 2 and 3.

In Figs. 4 and 5 of the drawings I have shown a modified form of drying-rack which

may be substituted in the casing for the rack or stand previously described. This form of my invention comprises a rotatable shaft 30, having an upper and a lower set or series of arms or bars 31, which are connected by brace-
 5 rods 32. The arms, preferably four in number, of the upper set aline with the arms of the lower set, and at the outer ends of said arms are secured at right angles cross-bars 33,
 10 the inner faces of which are provided with rows of spaced pins or teeth 34, similar to the pins or teeth 12, previously described. The inner portions of the arms 31 are also provided upon their opposite sides with similar
 15 pins or teeth, as shown. The hose-sections are folded upon these pins or teeth, as previously described.

From the foregoing description, taken in connection with the accompanying drawings,
 20 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
 25 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, and desire to secure by Letters
 30 Patent, is—

1. A hose-drier comprising a suitable support, an upright mounted thereon, sets of projecting arms or bars upon said uprights, the arms or bars of one set being in alinement
 35 with those of another, and comb projections upon said arms or bars adapted to engage and support a hose, substantially as described.

2. A hose-drying frame, provided with opposing supporting-arms each having rows of projections extending from opposite sides
 40 thereof, forming comb-bars having dual rows of teeth, whereby sections of hose may be sup-

ported on opposite sides of said bars, substantially as described.

3. A hose-drier comprising a suitable frame 45 or support, a shaft rotatably mounted therein, radially-projecting arms upon said shaft, hose-supporting projections upon said arms, a fan attached to said shaft below said arms, and means for rotating said shaft, substantially as 50 described.

4. A hose-drier comprising a suitable frame or support, a shaft rotatably mounted therein, radially-projecting arms upon said shaft, hose-supporting projections upon said arms, a fan 55 attached to said shaft below said arms, a casing for said fan, a drying-medium-supply pipe communicating with said casing, and means for rotating said shaft, substantially as described. 60

5. A hose-drier comprising a suitable frame or support, a shaft rotatably mounted therein, hose-supporting means carried by said shaft, a fan attached to said shaft below said hose-supporting means, a casing for said fan, means 65 for supplying the casing with a drying medium, and means for rotating said shaft, substantially as described.

6. A hose-drier comprising a suitable enclosed frame or casing, a shaft rotatably 70 mounted therein, hose-supporting means carried by said shaft, a fan attached to said shaft below said hose-supporting means, a casing for said fan, means for supplying the casing with a drying medium, and means for rotat- 75 ing said shaft, substantially as described.

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

CHARLES MICHAEL BOWMAN.

Witnesses:

HARRY RISSE,
 SANSOM E. BATDORF.