

No. 694,501.

Patented Mar. 4, 1902.

P. H. TREADWAY.
APPARATUS FOR PRESERVING EGGS.

(Application filed Oct. 15, 1901.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

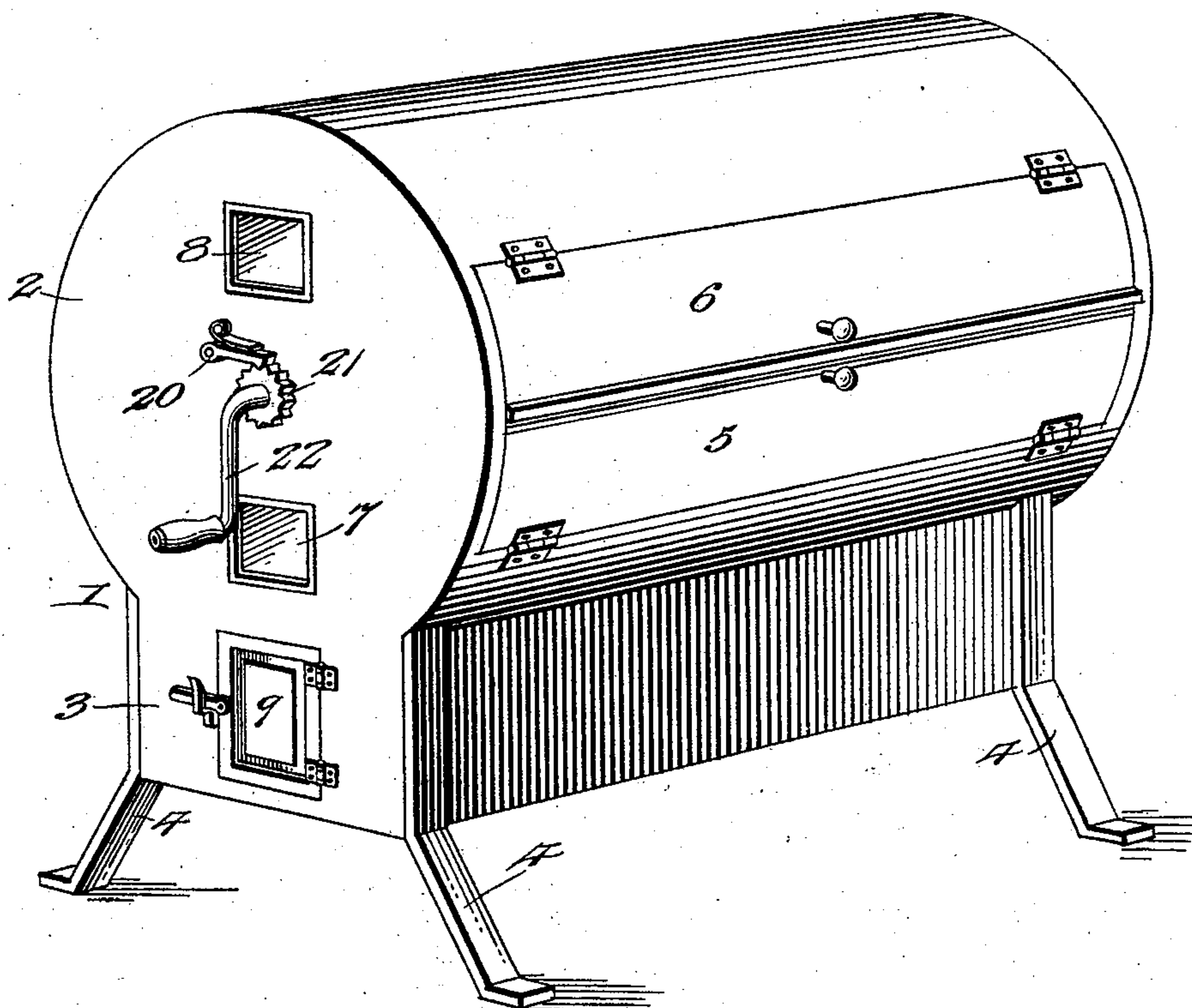
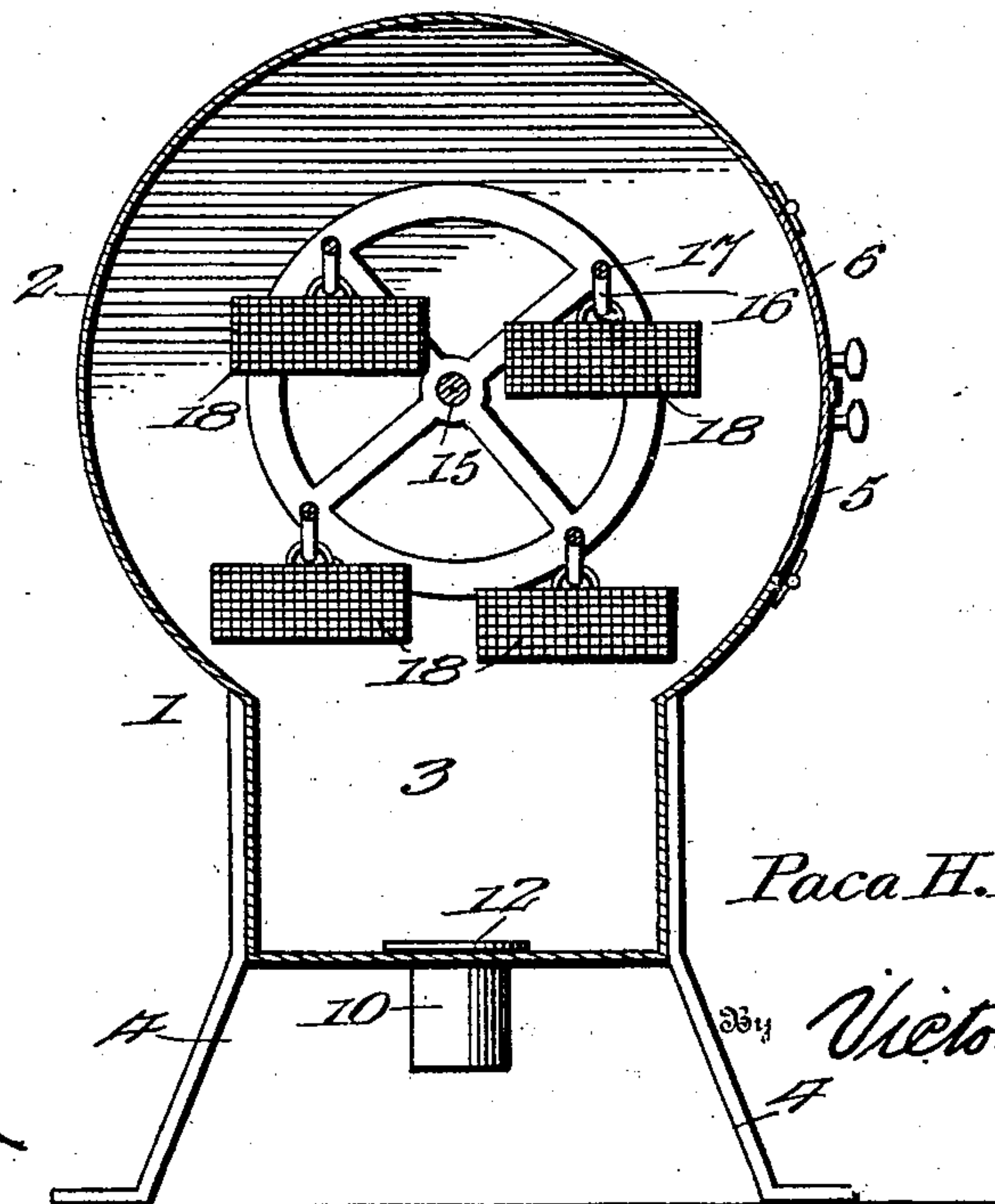


Fig. 2.



Witnesses
Edwin H. Miller
Geo. Ackman

Inventor
Paca H. Treadway

By *Victor J. Evans*
Attorney

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Fig. 3.

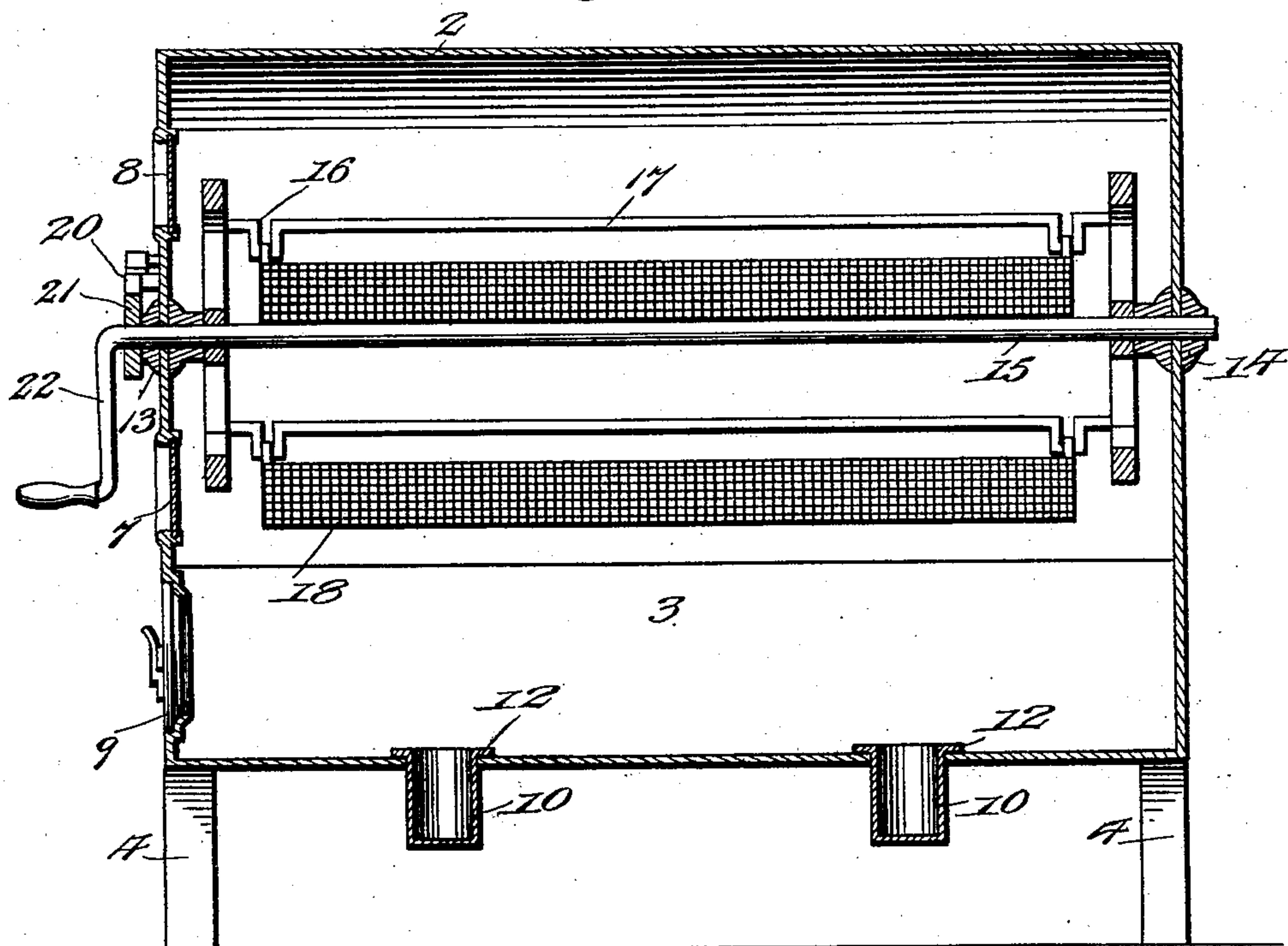
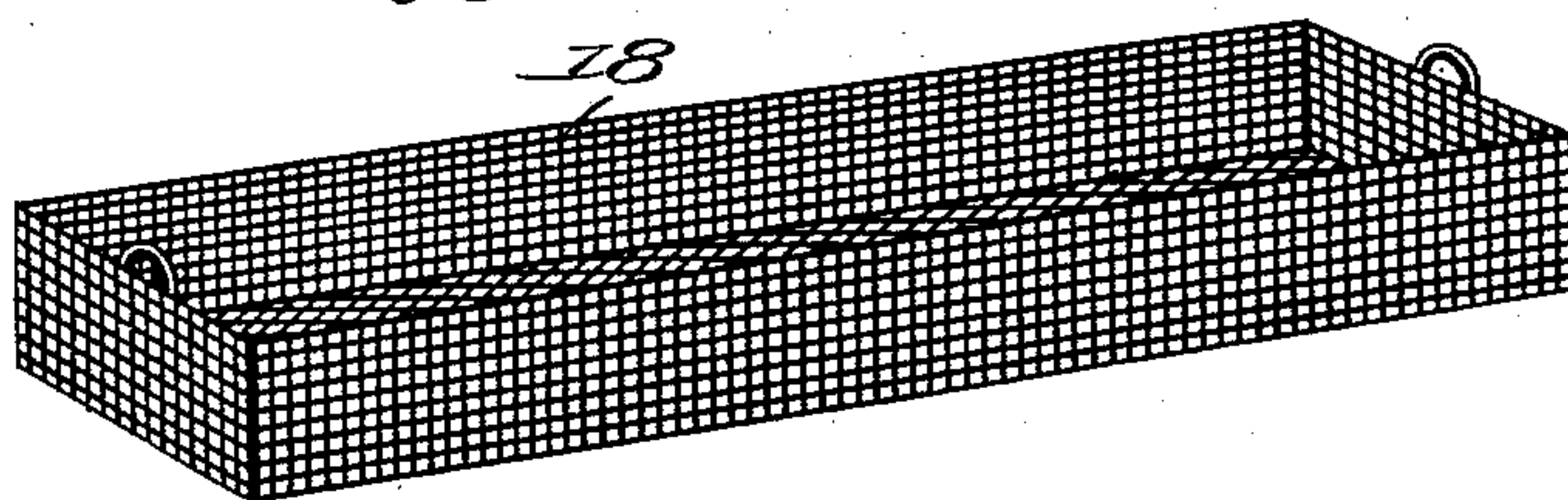


Fig. 4.



Witnesses:

Edwin Huckle
Geo. Ackman

Inventor
Papa H. Treadway

By *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

PACA H. TREADWAY, OF DARDANELLE, ARKANSAS.

APPARATUS FOR PRESERVING EGGS.

SPECIFICATION forming part of Letters Patent No. 694,501, dated March 4, 1902.

Application filed October 15, 1901. Serial No. 78,716. (No model.)

To all whom it may concern:

Be it known that I, PACA H. TREADWAY, a citizen of the United States, residing at Dardanelle, in the county of Yell and State of Arkansas, have invented new and useful Improvements in Apparatus for Preserving Eggs, of which the following is a specification.

This invention relates to an improved apparatus for preserving eggs; and the object thereof is to provide an efficient, simple, and durable device adapted to inclose baskets or other egg-receptacles during the process of preserving and while the eggs are being treated.

Other objects, as well as the novel details of construction embodied in this device, will be specifically described hereinafter, defined in the appended claims, and the novel construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a preserving apparatus constructed in accordance with my invention. Fig. 2 is a transverse sectional view. Fig. 3 is a vertical longitudinal sectional view, and Fig. 4 is a detail perspective view of one of the egg-carrying receptacles.

The reference-numeral 1 designates a casing comprising a cylindrical portion 2, merging into a rectangular portion 3 at the bottom thereof and supported upon suitable legs or standards 4. Longitudinally-arranged hinged doors 5 and 6 are provided in the casing and are adapted to swing upward and downward, whereby access to the interior of the casing may be had. On one end of the casing are arranged windows 7 and 8, in order that the operator may inspect the contents of the casing without exposing the same to the outside atmosphere.

Adjacent one end of the lower portion of the casing I provide a door 9, which may be opened for the purpose of inserting the chemical-receptacles 10, which are seated in suitable openings 11 in the bottom of the casing. These receptacles are in the nature of cups and are provided at their upper edges with annular flanges 12, adapted to be seated upon the bottom of the casing, so as to afford airtight joints and prevent leakage of the gas within the receptacle during the process of

preserving. Journaled in suitable bearings 13 and 14 and concentrically arranged with relation to the cylindrical portion of the casing is a longitudinally-arranged shaft 15, to which is rigidly secured the egg-receptacle-carrying frame 16. This frame comprises two disks mounted near the respective ends of the shaft 15 and rigidly carried thereby. A plurality of crank-shafts 17 are arranged at suitable intervals near the peripheries of these disks, and each shaft carries a basket or egg-receptacle 18, which may be readily suspended from the shafts 17 by hooks or eyes on the ends of the receptacles.

A pivoted spring-pressed pawl 20 is secured to the outer wall at one end of the casing and is adapted to engage a ratchet 21, rigidly mounted on the shaft 15, whereby the receptacles may be held rigid with relation to the shaft at any determined point. It will be noticed that a crank 22 is formed on one end of the shaft 15, whereby it may be revolved and incidentally rotate the frame 16.

The operation of the device is as follows: All the parts being assembled the operator will place the chemical-containing cups in the openings 10 by passing them through the opening closed by the door 9. The eggs will then be placed in the respective receptacles, the doors 5 and 6 being opened for this purpose. After the doors have been closed the casing 1 will be practically air-tight, and in order to generate the preserving gas or vapor a mild heat will be applied beneath the cups sufficient to vaporize the chemicals contained therein. In order that the eggs contained in each basket or receptacle may be acted upon freely, the receptacle-carrying frame will be rotated by turning the crank 22. If four receptacles are attached to the frame, the two upper ones will alternate with the two lower ones in being conveyed near the source of generation of the preserving-gas. If a greater number are attached to the frame, it may be found convenient to convey only one receptacle at a time adjacent the cups.

Of course it will be seen that any number of receptacles may be arranged on the frame, if desired; but it will not be practical to carry more receptacles than can conveniently clear each other as the frame is rotated. In actual

practice I prefer to employ four receptacles as the most convenient number; but I do not limit myself to this exact arrangement.

I would further have it understood that I reserve the right to make such slight changes and alterations in the shape and arrangement of parts as I may find convenient from time to time and without departing from the spirit of my invention.

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

1. In an egg-preserving apparatus, the combination with an air-tight casing of a chemical-receptacle detachably mounted in the bottom thereof, and a plurality of egg-receptacles revolubly suspended above the chemical-receptacle and within the casing, said egg-receptacles being adapted to be brought adjacent to the chemicals alternately.

2. In a preserving apparatus, the combination with a casing, of cups removably secured in said casing and adapted to contain a preserving agent, a shaft mounted in bearings 25 in the casing, a frame rigidly secured thereto, egg-receptacles carried by the frame, and means for rotating the shaft whereby the egg-receptacles may be conveyed toward and away from the cups.

3. In an egg-preserving apparatus, the combination with a casing provided with longitudinally-arranged doors and openings in its bottom, of removable cups seated in said opening and provided with peripheral flanges adapted to rest on the bottom of the casing, 35 a revolubly-mounted frame secured within the casing, egg-receptacles carried thereby and means for rotating the frame, whereby the egg-receptacles may be conveyed toward and away from the cups, and means for holding the receptacles in any predetermined position. 40

4. The combination with an air-tight receptacle having a suitably-located window therein, a revoluble shaft within said casing, pivotally-mounted receptacles suspended therefrom, detachable cups upon the bottom of the casing, means for revolving the shaft whereby the receptacles are conveyed alternately to points adjacent the cups and means for 50 preventing backward movement of the shafts.

In testimony whereof I affix my signature in presence of two witnesses.

PACA H. TREADWAY.

Witnesses:

WILL A. F. MAY,
H. M. SUGG.