

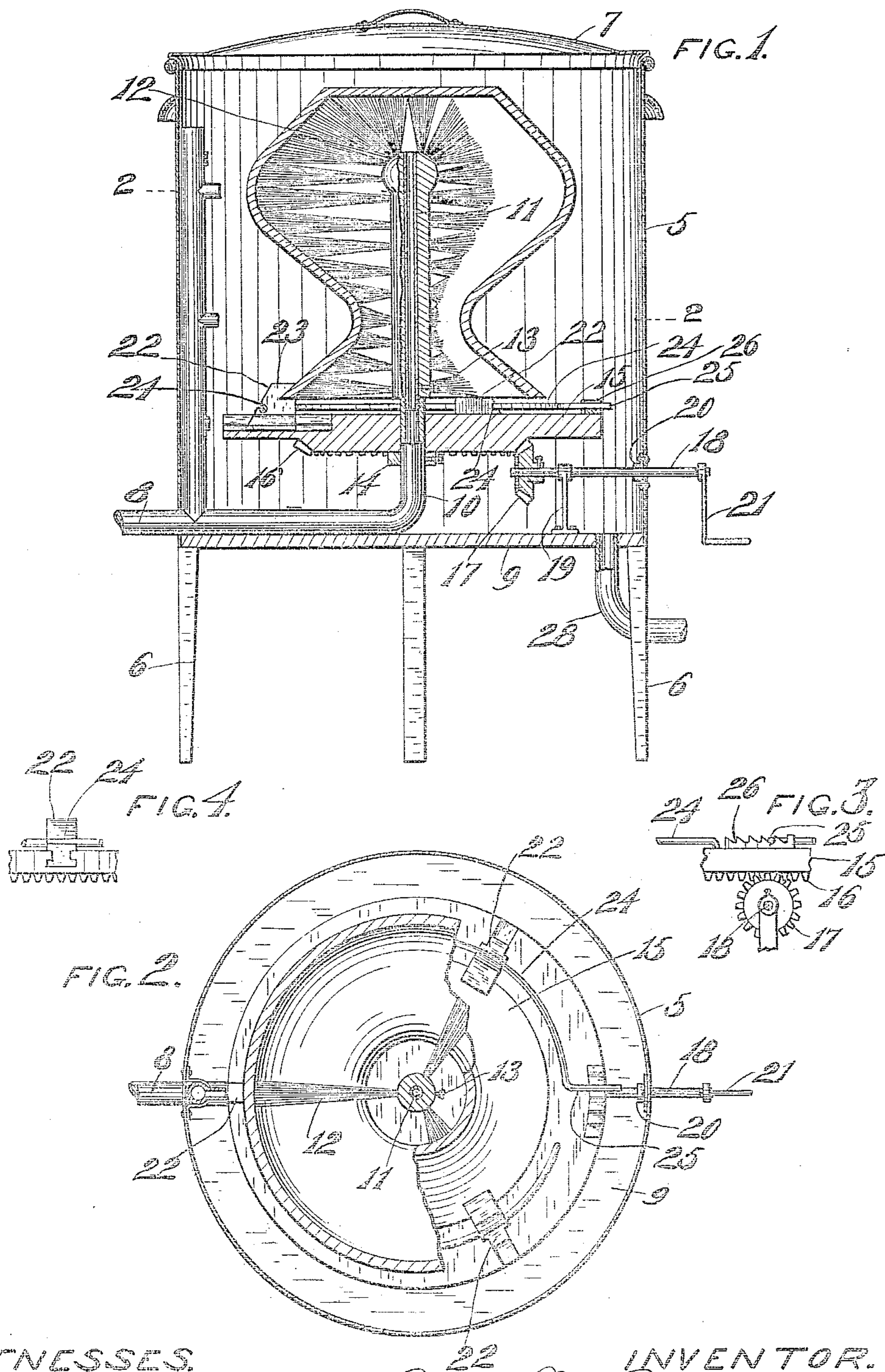
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O. O. RITZLAFF.  
CUSPIDOR CLEANER.

APPLICATION FILED JULY 29, 1909.

953,860.

Patented Apr. 5, 1910.



WITNESSES.

L. O. Thewer.

Anna Schmittbauer

INVENTOR.

Oscar O. Ritzlaff.

By Benedict, Morsell & Caldwell.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

OSCAR O. RITZLAFF, OF MILWAUKEE, WISCONSIN.

## CUSPIDOR-CLEANER.

953,860.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed July 29, 1909. Serial No. 510,210.

*To all whom it may concern:*

Be it known that I, OSCAR O. RITZLAFF, residing in Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Cuspidor-Cleaners, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention relates to improvements in cuspidor cleaners.

One of the objects of this invention is to provide a cuspidor cleaner in which a cuspidor may be placed and cleaned on the outside as well as the inside and with but a minimum amount of labor and skill.

A further object of this invention is to provide a cuspidor cleaner of the inclosed type in which the cuspidor is entirely inclosed in the cleaner while being cleaned.

A further object of the invention is to provide a cuspidor cleaner with improved cuspidor clamping means which is very simple in construction whereby cuspidors of varying sizes may be easily clamped to the cleaner. And a further object of the invention is to provide a cuspidor cleaner which is simple and durable and is inexpensive to manufacture and maintain.

With the above and other objects in view, the invention consists of the cleaner and its parts and combinations, and all equivalents thereof.

In the accompanying drawing in which the same reference characters indicate the same parts in all of the views: Figure 1 is a vertical sectional view of the complete cleaner with a cuspidor shown in position to be cleaned; Fig. 2 is a horizontal sectional view taken on line 2—2 of Fig. 1; Fig. 3 is a detail of the clamp locking means; and Fig. 4 is a detail of one of the clamping dogs.

Referring to the drawing the numeral 5 indicates an inclosed stand or case of circular form which is supported on legs 6 and is provided with a cover 7. A water inlet pipe 8 extends into the case immediately above the bottom 9 thereof to the medial portion and is then bent upwardly to form a vertical standard 10 provided with a smaller extension tube 11 threaded thereto. A brush 12 provided with bristles shaped to conform to the inner contour of a cuspidor is removably bolted to the extension tube by means of a bolt 13.

A collar 14 fastened to the standard 10 is adapted to support a revoluble disk 15 forming part of a bevel gear 16. The bevel gear is driven by a bevel pinion 17 fast on a shaft 18 which is mounted in bearings 19 and 20 and extending through the wall of the casing is provided with a crank handle 21 for rotating the same.

Mounted slidably on the upper surface of the disk 15 are a series of clutches or locking dogs 22 which are adapted to be moved to clamp the edge of an inverted cuspidor placed in the notched recesses 23 of said dogs by means of a circular spring 24. This spring extends through openings or recesses 24 provided in said dogs and one end thereof is bent downwardly and is fastened to the disk 15 and the other end 25 is bent outwardly, horizontally, and is adapted to hook over rack teeth 26 connected to the disk so that when the bent portion of the spring is advanced over the teeth the locking dogs will be moved toward the center of the disk and clamp and hold the cuspidor thereto until the spring is released from the teeth.

An extension pipe 27 provided with two nozzles 23 extends upwardly from the inlet pipe 8 just within the case and the nozzles are positioned to direct streams of water against the exterior of the cuspidor to thoroughly cleanse the outside of the same while it is being revolved. The upper end of the extension tube 10 is opened to provide a jet of water for cleaning the inner portion of the cuspidor. An outlet pipe 28 is provided for discharging the water used in cleaning.

The operation of the cleaner is as follows: A cuspidor is inverted and placed in position over the brush and the locking dogs are drawn into clamping engagement therewith by advancing the bent portion of the spring over the rack teeth. When properly clamped the cover is replaced on the case and water being turned on from a source of supply the crank is turned to rotate the disk and the cuspidor supported thereon. This movement will cause the brush to rub against all parts of the interior of the cuspidor and in connection with the jet of water issuing from the end of the extension tube will thoroughly cleanse the interior portion of the cuspidor. Simultaneously with the cleaning of the interior of the cuspidor the two nozzles forming part of the extension pipe are spraying and washing the outside of the cuspidor. The nozzles are positioned to

thoroughly wash all parts of the exterior of the cuspidor. The outlet pipe provides for the discharge of water while cleaning. When the cuspidor is cleaned the water is  
 5 shut off and the case opened and the cuspidor removed.

From the foregoing description it will be seen that the cleanser is very simple in construction and operation and is well adapted  
 10 for the purpose desired.

What I claim as my invention is:

1. A cuspidor cleaner, comprising a case provided with a vertical standard, a disk revolubly mounted on the standard and provided with dogs constructed to clamp an inverted cuspidor thereto, a brush connected to the standard, means for supplying water to the interior and the exterior of an inverted cuspidor placed on the disk, and  
 15 20 means for rotating the cuspidor.

2. A cuspidor cleaner, comprising an inclosed case provided with a vertical standard, a disk revolubly mounted in the case and provided with dogs constructed to clamp an inverted cuspidor thereto, a brush connected to the standard and positioned to contact with the interior wall of a cuspidor clamped by the dogs, a tube for supplying water to the interior and the exterior of an  
 25 30 inverted cuspidor placed on the disk, and means for rotating the disk.

3. A cuspidor cleaner, comprising an inclosed case provided with a vertical standard, a disk revolubly mounted on the standard and provided with dogs constructed to clamp an inverted cuspidor thereto, a tube extending upwardly from the standard, a brush shaped to conform to the interior contour of a cuspidor connected to the standard, a supply pipe extending into the casing and connected to the standard, a vertical pipe connected to the supply pipe and positioned to direct a jet of water against the outside of the cuspidor clamped to the disk, and a gear  
 35 40 45 connection for rotating the disk.

4. A cuspidor cleaner, comprising an inclosed case provided with an inlet pipe extending upwardly to form a standard, a brush connected to the standard and shaped to conform to the interior contour of a cuspidor, a disk revolubly mounted on the standard and provided with movable clamping dogs constructed to clamp an inverted cuspidor thereto, a member for moving all

of the dogs into clamping position, a gear 55 connected to the disk, a pinion in mesh with the gear, and a pipe positioned to direct a supply of water against the exterior of an inverted cuspidor clamped to the disk.

5. A cuspidor cleaner, comprising an inclosed case provided with an inlet pipe extending upwardly to form a standard, a brush connected to the standard and shaped to conform to the exterior contour of a cuspidor, a disk revolubly mounted on the standard and provided with movable clamping dogs constructed to clamp an inverted cuspidor thereto, a spring connected to the dogs and having one end fastened to the disk and the other end free for moving said dogs into clamping position, a rack connected to the disk for holding the free end of the spring in locked position, a beveled gear forming part of the disk, a beveled pinion in mesh with the gear and connected to a shaft which extends outside of the casing and is provided with rotating means, and a pipe positioned to direct a jet of water against the exterior portion of an inverted cuspidor clamped to the disk.  
 60 65 70 75 80

6. A cuspidor cleaner, comprising an inclosed case provided with an inlet pipe extending upwardly to form a standard, a tube extending upwardly from said standard and having an outlet opening, a brush connected to the tube and shaped to conform to the interior contour of a cuspidor, a disk revolubly mounted on the standard and provided with radial grooves, clamping dogs slidably mounted in said grooves, a rack fastened to the disk, a circular spring connected to the dogs and having one end fastened to the disk and the other end adjustably connected to the rack, a beveled gear forming part of the disk, a beveled pinion in mesh with the gear, a shaft extending through the casing and to which the pinion is connected, means for rotating the shaft, and a vertical pipe connected to the inlet pipe and positioned to direct a jet of water against the exterior portion of an inverted cuspidor clamped to the disk.  
 85 90 95 100

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

OSCAR O. RITZLAFF.

Witnesses:

C. H. KEENEY,  
 ANNA SCHMIDTBAUER.