

J. F. NOLAN.  
CUSPIDOR CLEANER.

No. 605,006.

Patented May 31, 1898.

FIG. 1.

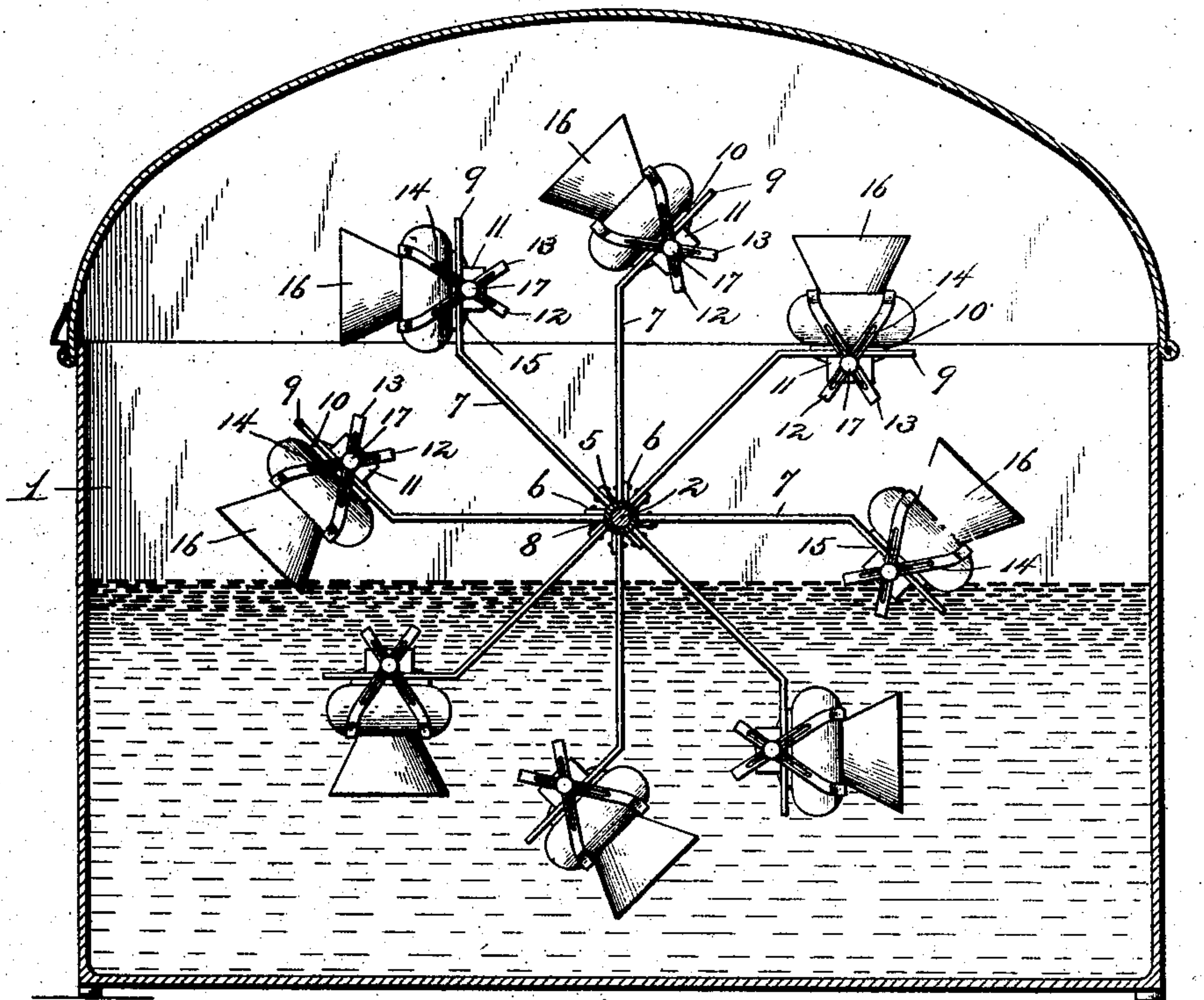


FIG. 3.

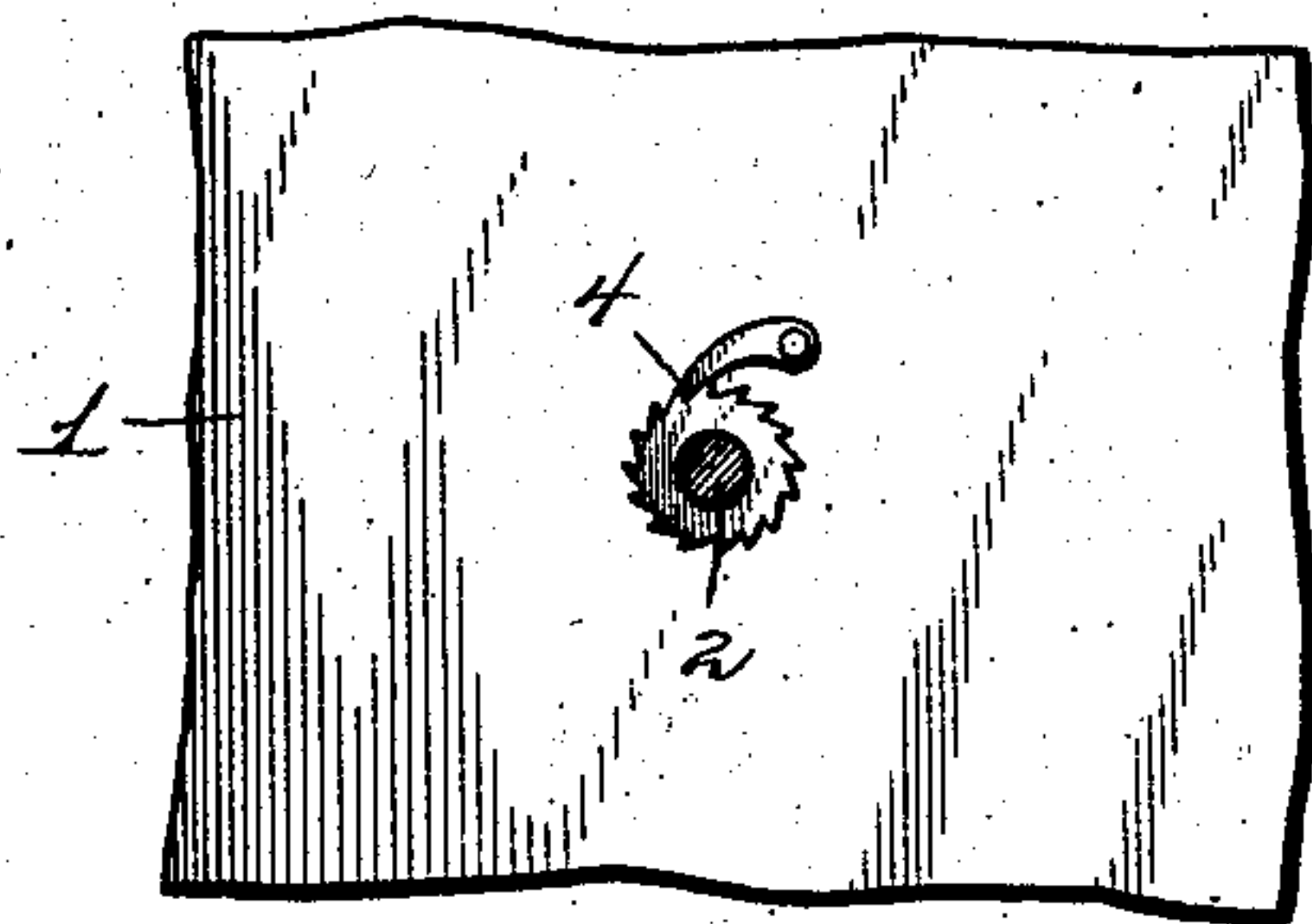
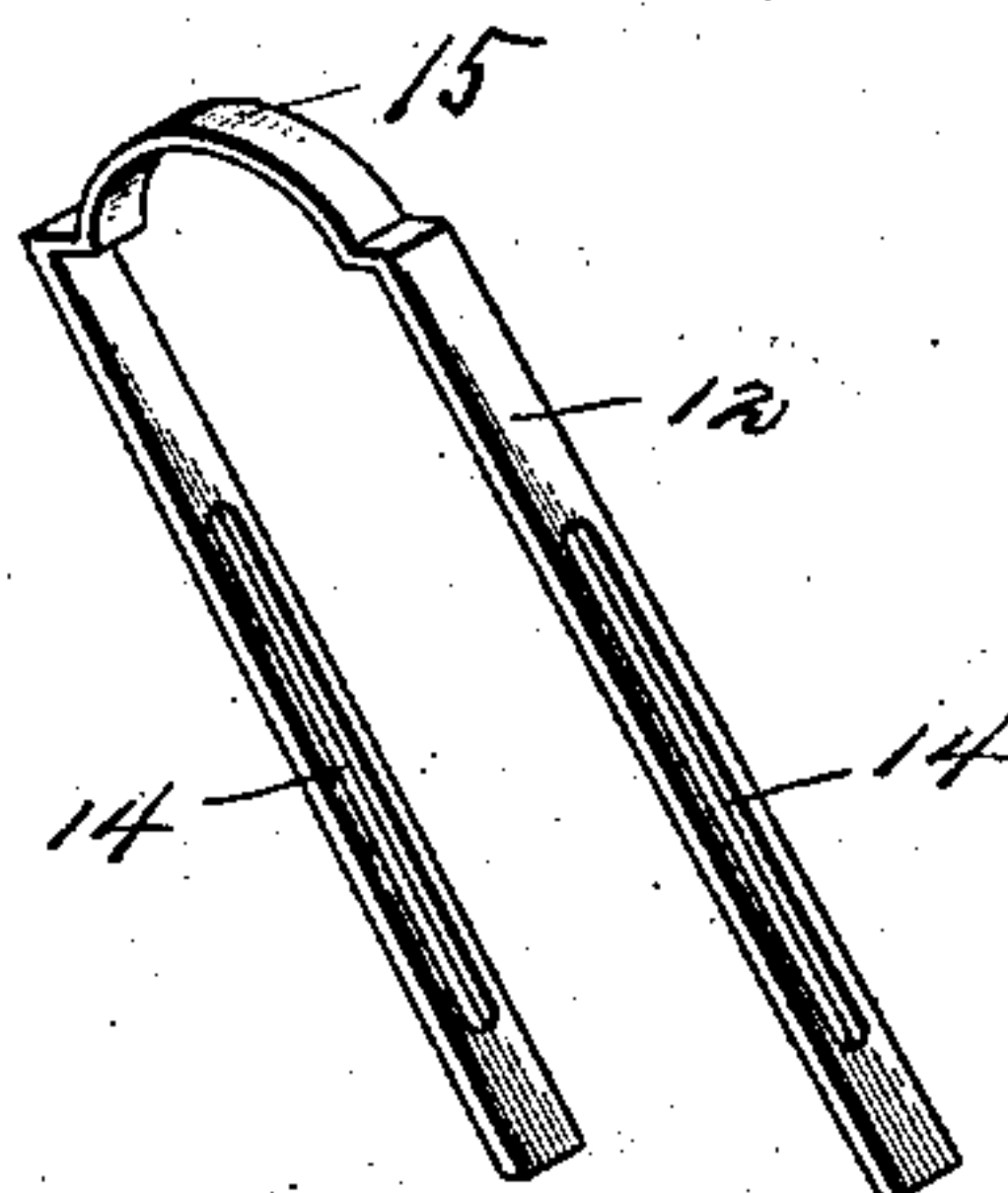


FIG. 4.



WITNESSES

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Victor J. Evans

INVENTOR

John F. Nolan.  
by W. D. Shockbridge  
his Attorney

(No Model.)

2 Sheets—Sheet 2.

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FIG. 2.

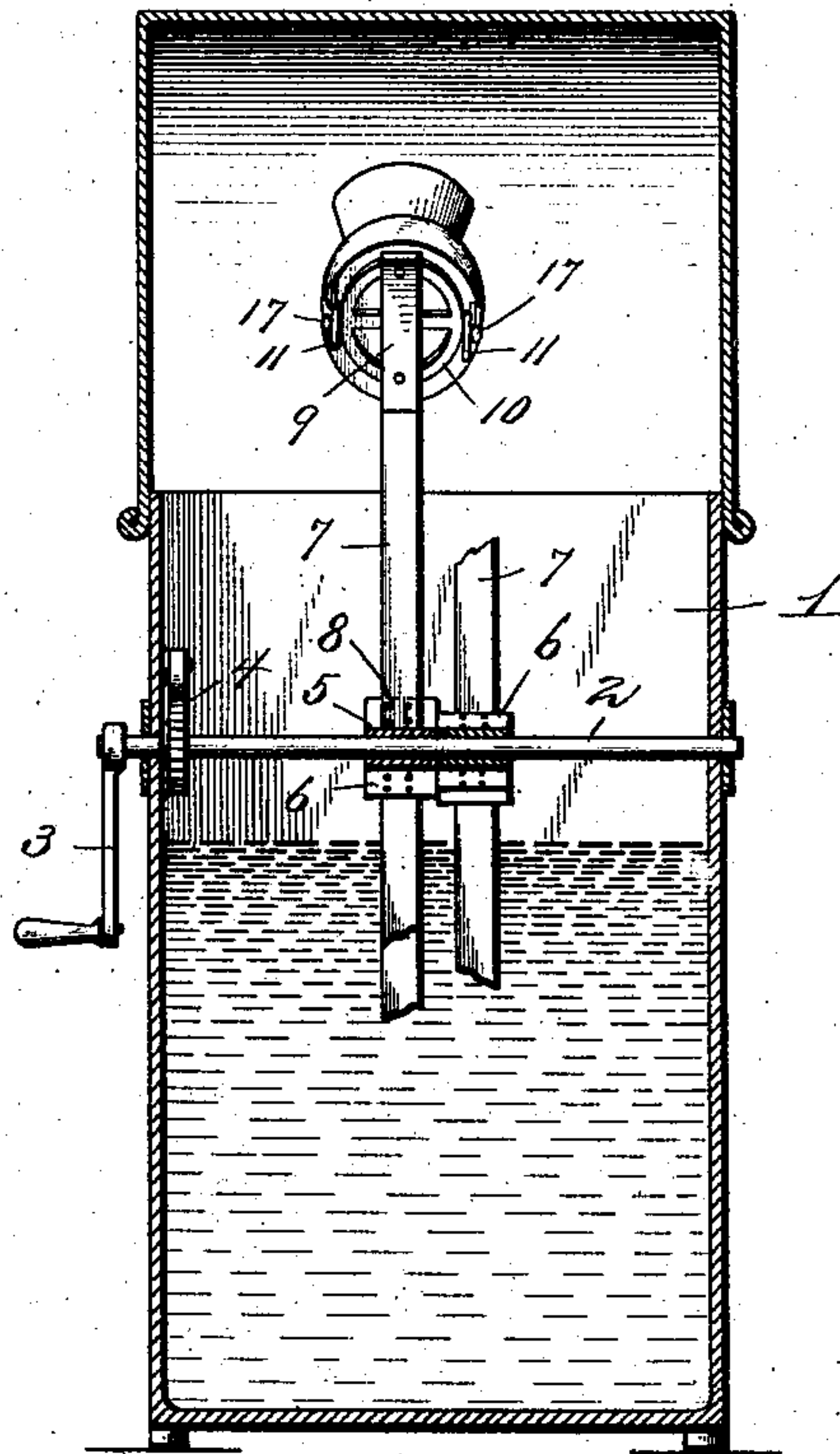


FIG. 5.

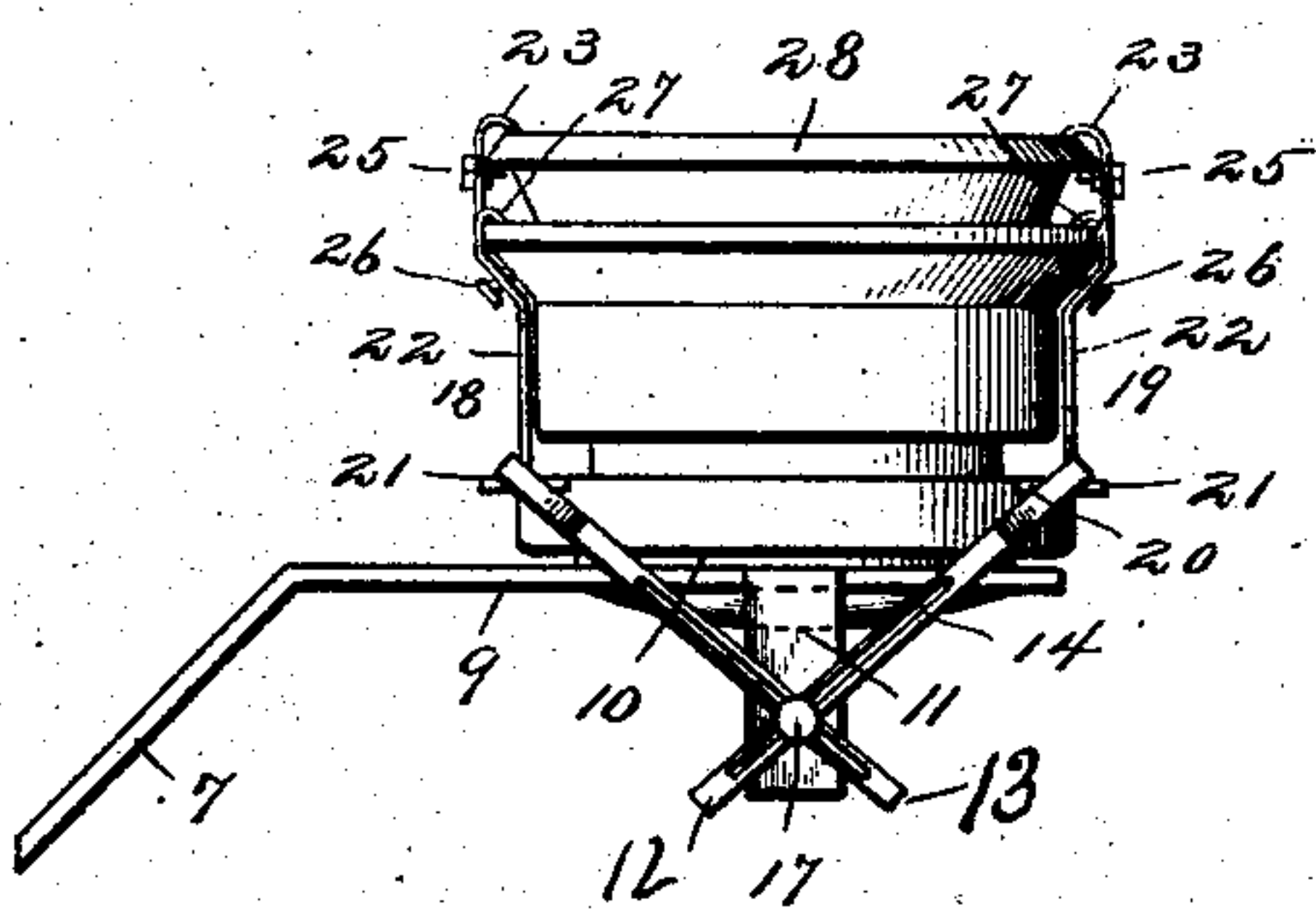
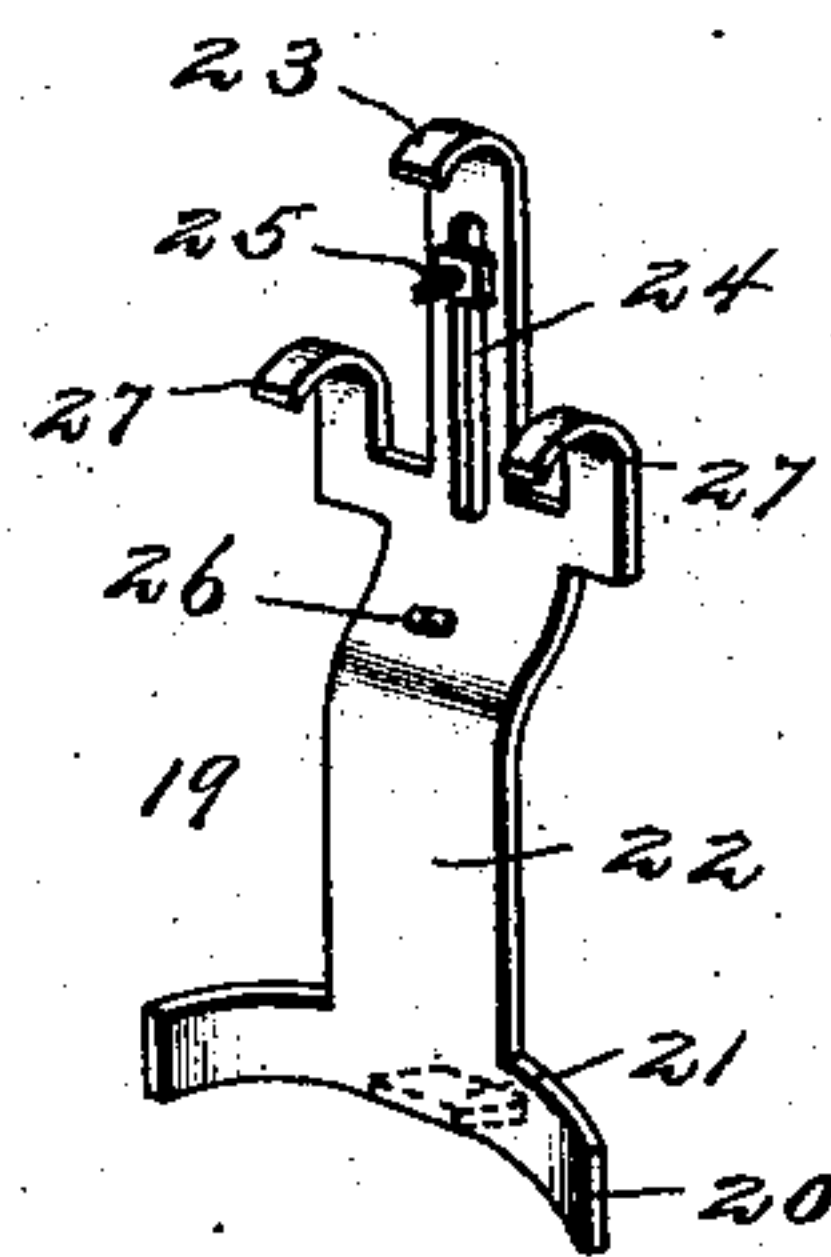


FIG. 6.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN F. NOLAN, OF CHICAGO, ILLINOIS.

## CUSPIDOR-CLEANER.

SPECIFICATION forming part of Letters Patent No. 605,006, dated May 31, 1898.

Application filed December 4, 1897. Serial No. 660,809. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN F. NOLAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cuspidor-Cleaners; and I do hereby 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.

My invention relates to cuspidor cleaning or washing machines.

My object is to provide an improved cuspidor-washer of simple and inexpensive construction whereby a number of cuspidors can be operated practically simultaneously and the cleansing or washing thereof accomplished with rapidity and ease.

A further object is the provision of a novel holder or clamp particularly adapted for use in connection with my improved machine, whereby cuspidors made in a single piece or with a removable top or cover can be held in proper position after the washing or cleansing thereof. Further objects of the invention will appear more fully hereinafter.

The invention consists of a cuspidor washer or cleaner comprising a receptacle to hold water or other suitable washing fluid, a rotary cuspidor-holder, cuspidor-clamps carried by the said holder at different points thereof, and certain other features, all of improved construction and novel arrangement, as will appear more fully hereinafter.

In the accompanying drawings, Figure 1 is a sectional elevation of the invention; Fig. 2, a cross-section; Fig. 3, a detail view of the clutch for locking the rotary cuspidor-holder; Fig. 4, a detail perspective view of one of the cuspidor-clamps; Fig. 5, a detail view of the cuspidor-clamp employed for cuspidors having removable covers, a cuspidor being shown in position in the clamp; and Fig. 6, a perspective detail view of one of the auxiliary clamps shown in the preceding figure.

A receptacle 1 of any preferred size and shape, which is provided with a suitable cover, is employed, and the same is adapted to contain the water or other fluid to be used in

cleansing the cuspidors. Extending transversely of the receptacle is a shaft 2, which is journaled in suitable bearings and has a crank-handle 3 at one end thereof, which is located on the outside of the receptacle. I employ a clutch 4 for locking the shaft to the receptacle, so that the former will not turn when a cuspidor is being secured in one of the clamps, and of course when the washing operation is going on this clutch is in unlocked arrangement. A hub 5 is secured to the shaft within the receptacle, the same having a plurality of stub-arms 6, arranged in sets located side by side, so that the arms of one alternate with those of the other. This permits the employment of a comparatively large number of cuspidor-holding arms, so that a quantity of cuspidors can be washed or cleansed during one operation of the machine, as will now appear.

The cuspidor-holding arms are shown at 7, and they are connected to the stub-arms of the hub by suitable fastenings 8 and extend radially through said hub, being provided with straight portions 9, disposed tangentially in relation to the hub, and these are provided with small platforms 10, on which the cuspidors rest. Extending downwardly from opposite sides of each platform are ears 11, which afford a connection for the adjustable members of the cuspidor-clamp.

The cuspidor-clamp members are shown at 12 and 13, and they are duplicates, each being constructed of a flat metal strip of U shape, whose legs have slots 14. The cross-piece 15 of each clamp member is arched in the manner shown to properly conform to the lower or body portion of the cuspidor, which is shown at 16. These clamp members straddle the cuspidor, and their leg portions are crossed adjacent the ears 11 and secured to the latter by thumb-screws 17, whose shanks pass through the slots 14. It is clear that either clamp member can be adjusted by simply loosening the thumb-screws, and after the cuspidor is in proper position the screws can be tightened, so that the cuspidor will be held firmly on the platform 10. As each arm is equipped with a cuspidor-clamp a number



of cuspidors can be secured to the rotary cuspidor-holder and the washing of all of them obtained during one operation of the machine.

When it is necessary to wash cuspidors having removable covers, I employ the cuspidor-clamp shown in Figs. 5 and 6. Here the U-shaped clamp members are employed as before, but in addition thereto there are provided auxiliary clamp members 18 and 19, which are duplicates. These auxiliary clamp members have a base consisting of an arch-shaped piece 20 and a projection 21. They have upright portions 22, terminating at the upper end in a retaining-hook 23 and provided with a slot 24. Fitting and movable within the slot 24 is the shank of a thumb-screw 25, provided with a jam-nut, by means of which the flange on the lid of the cuspidor may be clamped and held in position. There is also provided upon the upright portion 22 of each of the auxiliary clamp members a binding-screw 26, by means of which the clamp member is secured to the body of the cuspidor. Each auxiliary clamp member has curved fingers 27 located below the securing-screw.

A cuspidor of the removable-cover type is shown at 28. The auxiliary clamp-sections are applied to the opposite sides of the cuspidor, with the arch-shaped portions 20 embracing the sides of the body of the same, while the fingers 27 bear against the top of the body. The removable cover is held in elevated position relatively to the body of the cuspidor by reason of its edges being held between the retaining-legs, and the securing-screws. The arched portions of the U-shaped clamp members are engaged with the projections 21 of the auxiliary clamp members, and the cuspidor is thus held firmly on the platform 10. With such a construction as that just described the water contained in the washing-receptacle can have free access to all parts of the cover as well as the body of the cuspidor, and the proper cleansing action is thus insured.

When the cuspidors are being placed in the clamps, the clutch 4 is first operated to lock the shaft, so that rotation thereof is prevented, and after the uppermost clamps have been filled with cuspidors the clutch is unlocked, the shaft rotated to bring other cuspidor-holding arms uppermost, and the shaft again locked, so that the clamps just brought into position can be filled. The receptacle having been properly filled with water or other suitable fluid and the cuspidors placed in the clamps and the cover of the receptacle closed, the operator turns the crank-handle, thus causing the rotation of the hub and arms and forcing the cuspidors one after another through the fluid.

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

1. In a cuspidor washer or cleaner, the com-

bination with a fluid-receptacle, of a rotary cuspidor-holder within said receptacle, and cuspidor-clamps located at different points of the holder and consisting of substantially U-shaped clamp members adapted to embrace the body of the cuspidor on opposite sides thereof and being relatively adjustable, and means for securing said clamp members.

2. In a cuspidor washer or cleaner, the combination with a fluid-receptacle, of a rotary cuspidor-holder within said receptacle, cuspidor-clamps comprising substantially U-shaped clamp members having slotted legs, the cross-pieces of said clamp members being adapted to embrace the body of the cuspidor and having their slotted legs crossing each other, and thumb-screws whose shanks pass through the slots of the legs aforesaid and into the cuspidor-holder.

3. In a cuspidor washer or cleaner, the combination with a washing-receptacle, of a shaft journaled therein, arms radiating from said shaft and provided with tangentially-disposed platform portions having depending ears, cuspidor-clamps for each arm which consist of duplicate clamp members of U shape having slotted legs which cross each other and lie against the respective ears aforesaid, and thumb-screws which pass through the slotted portions of the crossed legs and into the ears.

4. In a cuspidor washer or cleaner, the combination with a washing-receptacle, of a rotary cuspidor-holder located therein, and cuspidor-clamps carried by said holder each consisting of auxiliary clamp members having fingers or projections adapted to engage the upper portion of the body of the cuspidor, and retaining and securing devices to engage the cuspidor-mouth, and main clamp members connecting the auxiliary clamp members to the cuspidor-holder.

5. In a cuspidor washer or cleaner, the combination with a washing-receptacle, of a rotary cuspidor-holder located therein, and cuspidor-clamps carried by said holder consisting of auxiliary clamp members having devices for engaging the body of the cuspidor, retaining-hooks adapted to engage the upper edge of the cuspidor-cover, and adjustable securing devices to engage the lower portion of said cover, and main clamp members which afford a connection between the auxiliary clamp members and the cuspidor-holder.

6. In a cuspidor washer or cleaner, the combination with a washing-receptacle, of a rotary cuspidor-holder therein and cuspidor-clamps carried by said holder consisting of auxiliary clamp members having portions adapted to engage the sides of the cuspidor-body, retaining-hooks adapted to engage the upper part of the cuspidor-cover, and adjustable securing devices to engage the lower portion of the rim of the cover, and main clamp members connecting the auxiliary clamp members to the cuspidor-holder.

7. In a cuspidor washer or cleaner, an aux

iliary clamp for cuspidors having removable covers consisting of a body having a retaining-hook at its upper end, a curved base-piece, fingers, said clamp member having a slot, a retaining-screw whose shank is movable in the slot, and means for securing said screw.

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

JOHN F. NOLAN.

Witnesses:

EDWARD CAREY,  
OTTO SNYDER.