

J. P. LANEY.

CUSPIDOR.

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997,140.

Patented July 4, 1911.

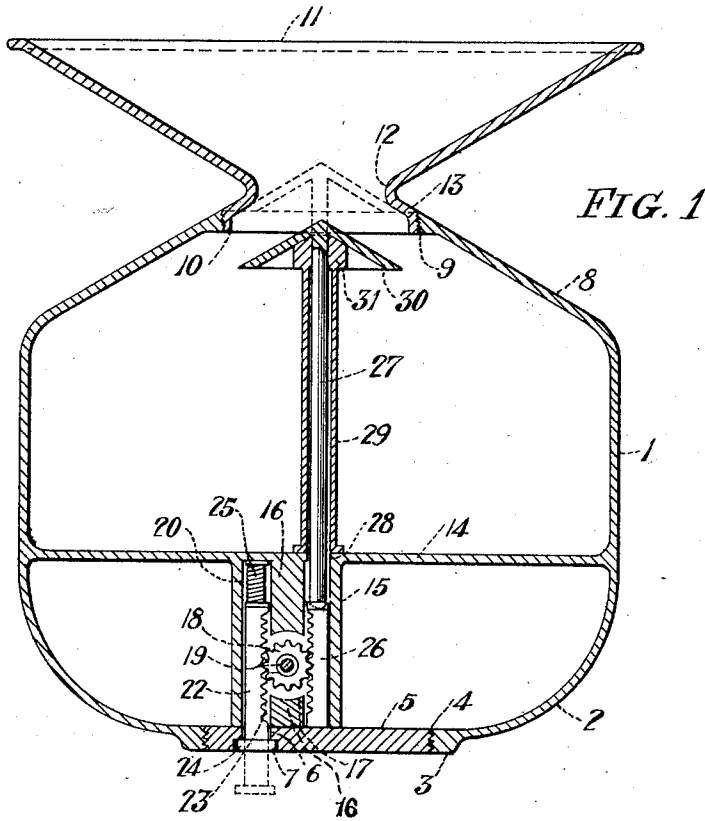


FIG. 1

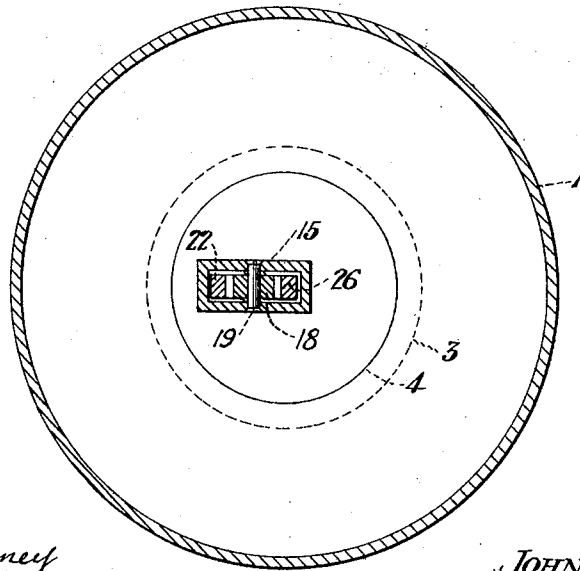


FIG. 2

WITNESSES:
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JOHN PAUL LANEY, OF PITTSBURG, PENNSYLVANIA.

CUSPIDOR.

997,140.

Specification of Letters Patent.

Patented July 4, 1911.

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To all whom it may concern:

Be it known that I, JOHN PAUL LANEY, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Cuspidors, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to check valves for cuspidors, and the objects of my invention are to furnish a cuspidor with a novel check valve that will prevent the contents thereof from being spilled when the cuspidor is accidentally tilted or upset, and to provide a cuspidor that can be advantageously used in hotels, theaters, depots and other public places where cuspidors are liable to be upset.

Further objects of the invention are to provide a cuspidor that can be easily cleansed and maintained in a sanitary condition, and to accomplish the above results by a mechanical construction that is simple, durable and inexpensive to manufacture.

With the above and other objects in view, the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a vertical sectional view of the cuspidor, and Fig. 2 is a horizontal sectional view of the same.

1 denotes a cylindrical receptacle having a semi-spherical bottom 2 provided with a central enlargement 3. The enlargement 3 is provided with a vertical opening 4 having the walls thereof screw threaded to receive a plug 5 and this plug is provided with an opening 6 having the lower end thereof enlarged, as at 7.

The upper edges of the receptacle are provided with a cone-shaped top 8 having a central opening 9 with the walls thereof screw threaded. Detachably mounted in the opening 9 is the lower exteriorly threaded end 10 of a funnel-shaped mouth-piece 11, the contracted portion 12 of said funnel-shaped mouth-piece providing an annular shoulder which serves functionally as a valve seat 13.

The receptacle 1 is provided with a horizontal partition 14 and this partition has a depending casing 15, rectangular in cross section, and adapted to have the lower end

thereof rest upon the plug 5. The casing has a vertical partition 16 which is cut away, as at 17 to provide clearance for a pinion 18 revolubly mounted upon a rivet 19 arranged transversely of the casing 15.

The partition 16 forms two compartments 20 and 21 within said casing and in the compartment 20 is arranged a spring pressed plunger 22 having one side thereof provided with a rack 23 adapted to engage the pinion 18. The lower end of the plunger 22 has a head 24 engaging in the enlarged end 7 of the opening 6, and interposed between the upper end of said plunger and the partition 15 is a coiled compression spring 25.

Arranged within the compartment 21 of the casing 15 is a rack 26 engaging the pinion 18 and connected to the upper end of said rack is a valve stem 27, said stem extending upwardly through an opening 28 provided therefor in the partition 14 and through a tube 29 mounted upon the partition 14. The upper end of the valve stem 27 has a conical-shaped valve 30 normally held in engagement with the enlarged end 31 of the tube 29.

The weight of the cuspidor upon the floor normally maintains the plunger 22 in an elevated position with the spring 25 under tension. When the cuspidor is accidentally tilted or upset, the plunger 22 is released and forced outwardly by the tension of the spring 25, such movement of the plunger causing the pinion 18 to rotate and through the medium of the rack 26 elevate the valve stem 27, until the valve 30 engages the seat 13 and closes the cuspidor. The closing of the valve 30 prevents the contents of the receptacle from being spilled, and said valve can be restored to its normal position immediately upon the cuspidor being placed in an upright position upon the floor or other support.

It is through the medium of the openings 4 and 9 that the parts of the cuspidor can be easily assembled and maintained in a sanitary condition.

What I claim is:—

1. A cuspidor comprising a receptacle having the bottom thereof provided with an opening, a plug detachably mounted in said opening, a funnel shaped mouth piece carried by the top of said receptacle and providing a valve seat, a horizontal partition arranged in said receptacle, a depending casing carried by said partition, a spring

pressed plunger movably arranged in said casing and extending through said plug, a rack arranged in said casing, a valve stem carried by said rack, a valve carried by the upper end of said stem and adapted to engage the valve seat of the funnel-shaped mouth-piece, and means arranged within said casing and actuated by a movement of said plunger and adapted to move said valve stem to seat said valve.

2. A cuspidor comprising a receptacle having the bottom thereof provided with an opening, a plug detachably mounted in said opening, a funnel-shaped mouth-piece carried by the top of said receptacle and in communication therewith, said funnel-shaped mouth-piece having a contracted portion providing a valve seat, a partition arranged in said receptacle, a casing carried by said partition, a tube carried by said partition, and in communication with said casing, a valve stem extending upwardly through said tube, a valve carried by the upper end of said stem and adapted to engage the seat of said funnel-shaped mouth-piece, and means arranged within said casing and including a rack and pinion adapt-

ed to move said valve stem when said cuspidor is tilted or upset.

3. A cuspidor comprising a receptacle, a plug detachably mounted in the bottom of said receptacle, a funnel-shaped mouth-piece detachably mounted in the top of said receptacle and having the lower end thereof provided with a valve seat, a partition arranged in said receptacle, a casing carried by said partition, a tube carried by said partition and in communication with said casing, a valve stem arranged in said tube, a valve carried by the upper end of said stem and adapted to engage the seat of said funnel-shaped mouth-piece, a rack carried by the lower end of said valve stem, a spring pressed plunger arranged in said casing and extending through said plug and a pinion journaled in said casing and adapted to be actuated by said plunger to move said rack, substantially as described.

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

JOHN PAUL LANEY.

Witnesses:

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C. T. HOOD.