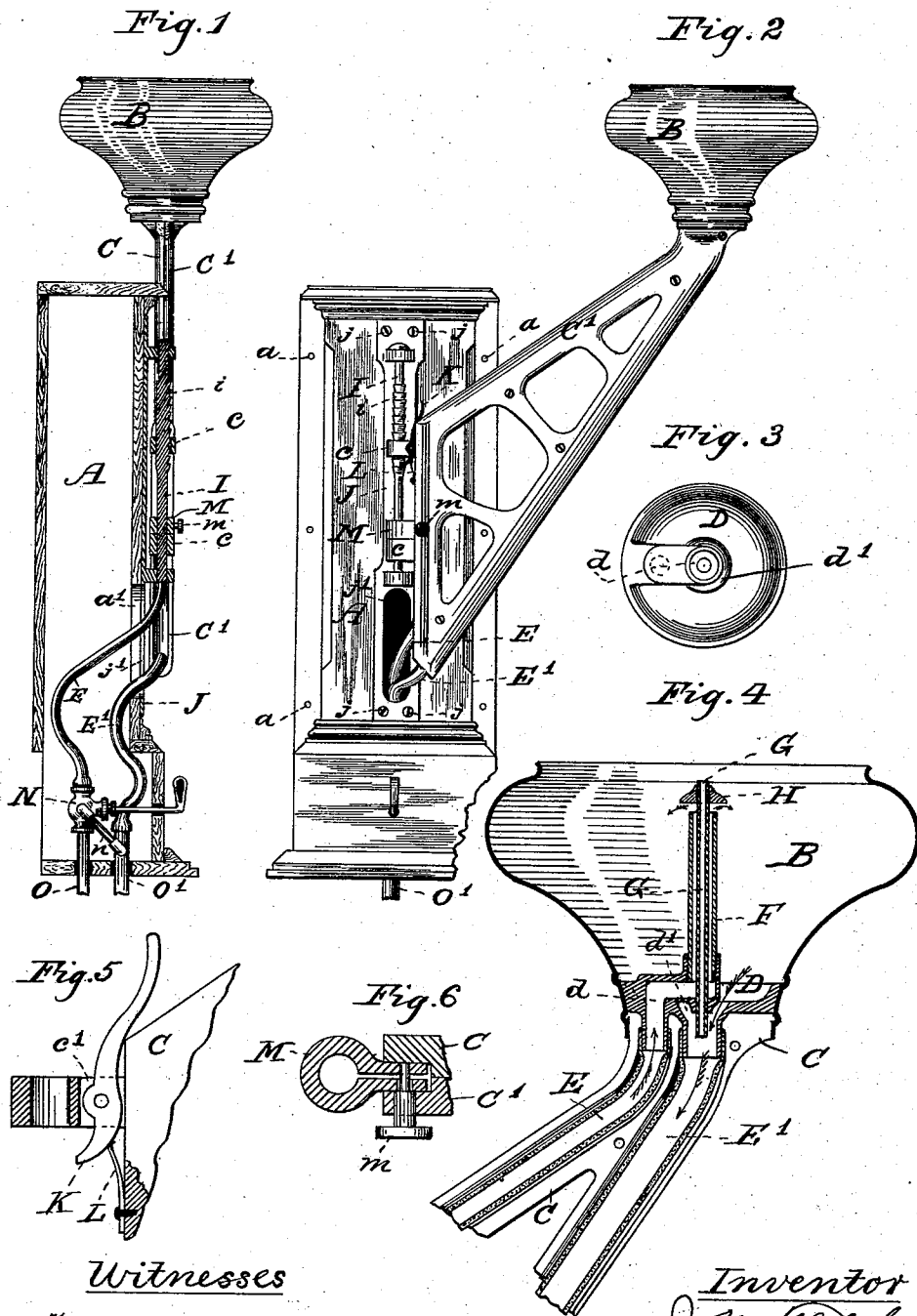


(No Model.)

J. M. FLETCHER.
ADJUSTABLE FOUNTAIN SPITTOON.

No. 349,704.

Patented Sept. 28, 1886.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN M. FLETCHER, OF CONCORD, NEW HAMPSHIRE.

ADJUSTABLE FOUNTAIN-SPITTOON.

SPECIFICATION forming part of Letters Patent No. 349,704, dated September 28, 1886.

Application filed July 19, 1886. Serial No. 208,349. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. FLETCHER, a citizen of the United States, residing at Concord, in the county of Merrimac and State of New Hampshire, have invented certain new and useful Improvements in Adjustable Fountain-Spittoons, of which the following is a specification.

This invention relates to fountain-spittoons for dentists' use, the object in view being to provide a swinging adjustable spittoon which may be brought in convenient reach of a dentist's chair or swung up against the wall when not required.

The invention is fully illustrated in the accompanying drawings, forming part of this specification, of which—

Figure 1 is a vertical sectional elevation showing the supply and drain pipes in elevation. Fig. 2 represents a front view of the case as when screwed in position against the wall, having the spittoon turned to one side. Fig. 3 is a detached plan view of the casting forming the bottom of spittoon. Fig. 4 is an enlarged vertical section of the spittoon, showing the air-tube passing through a portion of the supply-pipe and entering the drain-pipe. Fig. 5 is an enlarged detailed view of the spring-pawl for holding the swing-arm at any required elevation. Fig. 6 is a plan of the clamping device for retaining the swing-crane where required.

Like reference-letters indicate like parts in the various views.

The case A is designed to be screwed to the wall at *a a*, the base of which rests upon the floor.

The spittoon B may be spun from some suitable metal and fitted securely to the upper part or top of the swinging arm, which is preferably formed in two parts, C C'.

In the bottom plate, D, of the spittoon B are cored two passages, *d d'*—the former for conducting the fresh-water supply into said spittoon and the latter for carrying off the drainage. This drain-passage *d'* is centrally located, and the supply-passage *d* has its outlet directly over the drain-passage, but its inlet is on one side, both of said passages being connected by tubes E E' with the lower part of the case A, to be hereinafter explained.

To the outlet of the passage *d* is attached a tube, F, and within this tube is placed a smaller tube, G, which extends downward through the supply-passage *d* and sufficiently below the top of drain-passage *d'* to vent the same and prevent any noise from the escape of air from said drain-tube. This tube G may be soldered or otherwise rigidly attached to the bottom of supply-passage *d*, as seen in Fig. 4.

To the top of the tube G is threaded a metallic spreader, H, against which the water strikes while being ejected from the supply-tube F, and is thus thrown continuously upon the inner wall of the spittoon B.

The swing-arm composed of the parts C C' is provided with bearings *c c*, by which it is mounted upon the vertical rod I, carried upon an iron plate, J, which is secured by screws *j* to the case A. The rod I is provided with serrations *i*, as seen in Figs. 1 and 2. A pawl, K, is pivoted to the upper bearing, *c*, either upon the outside of the same, as in Fig. 2, or within a slot, *c'*, formed for this purpose vertically through said bearing, as in Fig. 5, and a suitable spring, L, is secured to the swing-arm in such manner as to bear upon said pawl K and force it upon the serrations *i* of the rod I, and render the swing-arm adjustable vertically as well as horizontally.

In order to lower the swing-arm, the top of the pawl K has simply to be pressed toward the rod I, which disengages the opposite end from the serrations of the rod I and permits it to drop.

The swing-arm may be held at any desired point in its rotative course by various means, one of which is illustrated by the clamp M, which rests in a slot within the swing-arm. This clamp is in the form of a split bearing, and is adapted to fit loosely upon the rod I, except when it is desired to retain the swing-arm at any required point in its rotative course, when said clamp may be compressed and tightly grip the rod I by means of the screw *m*, as shown best in detail, Fig. 6.

It is advisable for various reasons to have the supply pipe or passage *d* drained between the spittoon and the valve; hence I prefer to use an ordinary stop and waste cock, N, which I locate in the base of the case A, as in Fig. 1, and connect the waste by aid of the tube *n* with

the drain-pipe O', which comes up through the floor in close proximity to the supply-pipe O. A valve-stem controlling the supply of water to the spittoon extends from the cock N outward through the front of the case A.

The tubes E E' connect, respectively, the passages *d d'* of the bottom plate, D, of the spittoon B with the stop and waste cock N and the drain-pipe O'. In the drawings these tubes are represented to be of flexible material, such as rubber. They may, however, be composed of metal so far as they run within the swing-arm, and flexible tubes be used only from that to the floor-connections, which is necessary for the proper adjustment of said arm; or the swing-arm might be cast in one piece, passages being cored out for the supply and drainage. The case A is slotted at *a'* and the iron plate J is slotted at *j'* for the entrance of the tubes E E'.

Another advantage afforded by the air-tube G is its adaptability for use as a saliva-ejector by simply attaching a tube to its top and extending it thence to the mouth of any one a dentist may be operating upon, by which the saliva is siphoned.

I am aware that it is not new to provide a spittoon with supply and waste pipes, or with means for vertical adjustment and horizontal rotation.

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

1. The combination, with the wall-casing and the pivotal rod connected thereto, of the swinging arm carrying the spittoon and the supply and drain pipes, and the split clamp gripping said rod to hold the arm fast at any desired point of its rotative course, as set forth.

2. The combination, with a case adapted to be screwed to the wall, of a swing-arm pivotally connected thereto and adapted to carry a fountain-spittoon at its outer end, with suitable supply and drain tubes, and means, substantially as shown, for the vertical adjustment of the swing-arm, as set forth.

3. In a fountain-spittoon, the combination, with the bottom plate having cored passages for the supply and drain, as shown, of the air-tube located within the supply-tube and connecting the drain-tube with the outer air, and a suitable spreader threaded to the top of said air-tube and adapted to direct the supply horizontally against the sides of said spittoon.

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

JOHN M. FLETCHER.

Witnesses:

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