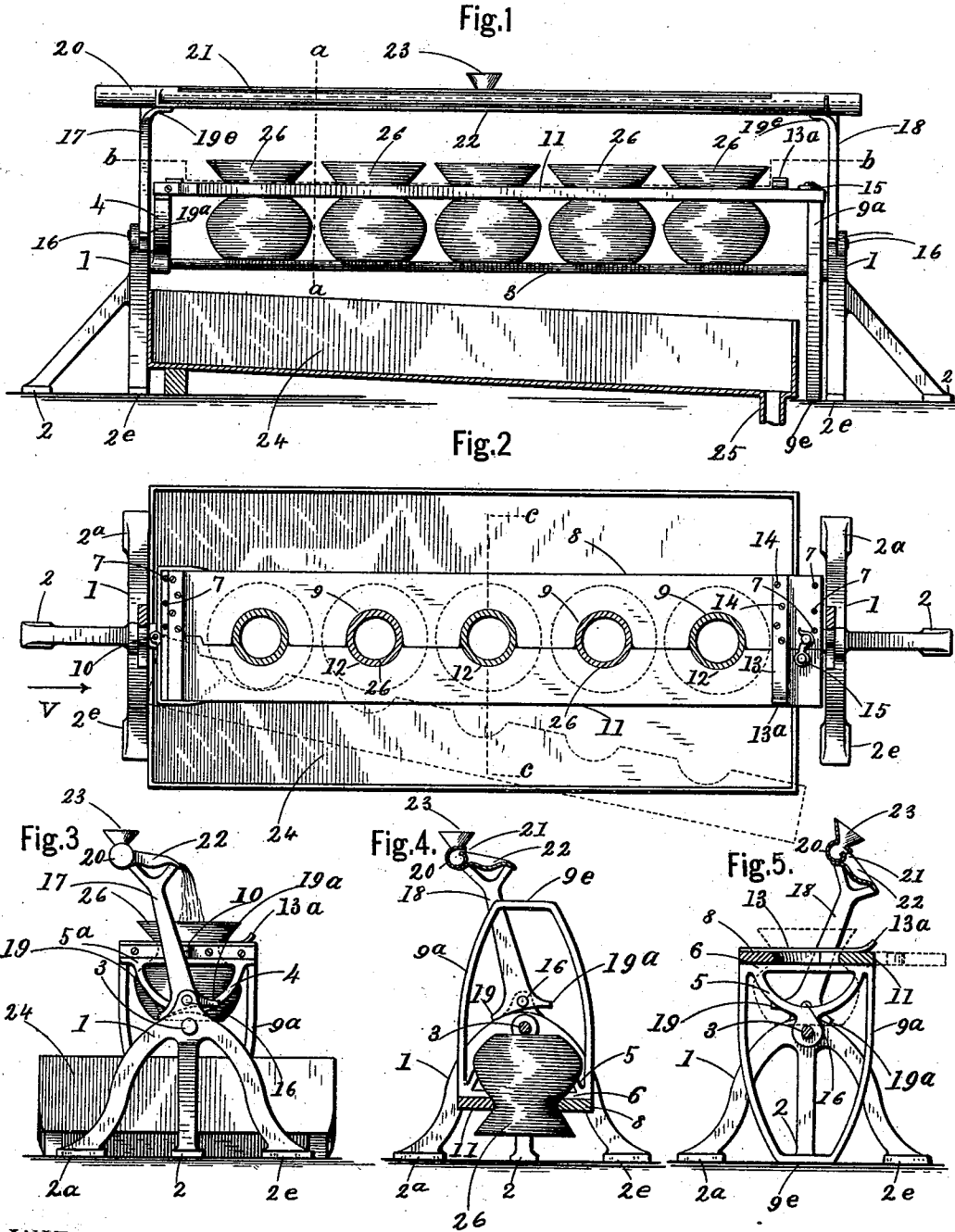


(No Model.)

C. E. KOCH.
DEVICE FOR WASHING SPITTOONS.

No. 547,927.

Patented Oct. 15, 1895.



WITNESSES,

H. B. [Signature]
A. J. Sangster

Inventor.

Charles E. Koch.
By James Sangster.
Attorney.

UNITED STATES PATENT OFFICE.

CHARLES E. KOCH, OF DUNKIRK, NEW YORK.

DEVICE FOR WASHING SPITTOONS.

SPECIFICATION forming part of Letters Patent No. 547,927, dated October 15, 1895.

Application filed August 8, 1895. Serial No. 558,679. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. KOCH, a citizen of the United States, residing at Dunkirk, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Devices for Washing Spittoons, of which the following is a specification.

My invention relates to a new and improved means for washing cuspidors or spittoons, and will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 represents a side elevation of the machine complete, showing a series of cuspidors in their normal or upright position, showing, also, a vertical longitudinal central section through the wash-water receptacle. Fig. 2 represents a top or plan view of the machine, showing a horizontal section on or about line *b b*, Fig. 1, cutting through the necks of a series of cuspidors, so as to expose the mechanism below the tops of the same. Fig. 3 is an end elevation of the machine, looking in the direction of the arrow *V* in Fig. 2, showing a spittoon in an upright position and receiving water to clean it. Fig. 4 represents a vertical section looking in the direction of the arrow *V*, Fig. 2, cutting through the water-supplying device or trough and the bars for holding the cuspidors in place while being washed in or about line *a a*, Fig. 1, showing a cuspidor in an inverted position to present the under side for washing, the waste-water receptacle being omitted. Fig. 5 also represents a vertical section looking in the direction of the arrow *V*, Fig. 2, cutting down through the bars that hold and support the cuspidors while washing them in or about line *c c*, Fig. 2, showing the water-supplying trough thrown over to one side out of the way, so that the spittoons may be removed from the machine, as will more clearly appear farther on.

Referring to the drawings in detail, 1 and 1^a represent the two end pieces of the base or frame. They are both constructed with three supporting legs or feet 2, 2^a, and 2^b, thereby forming a tripod upon which they can stand firmly. Near the top of each of these supporting end frames is firmly fastened a shaft 3, thereby securing the base-frame rigidly together. At or near one end of the shaft

3 is mounted a substantially semicircular frame-piece 4, and at the opposite end of the shaft 3 is another similar frame-piece 5. Both the frame-pieces 4 and 5 are fitted to turn loosely on the shaft 3. On one half of the upper or flat portions 5^a and 6 of the frame-pieces 4 and 5 is rigidly secured by screws 7 (see Fig. 2) a flat plate or board 8, having a series of semicircular openings 8. (See Figs. 2 and 5.) The plate 8 being firmly secured to the frames 4 and 5 allows the whole to be turned over on the shaft 3.

To keep the frames 4 and 5 in position when turned up, as in Fig. 1, a supplementary frame-piece 9^a is attached to or formed in one piece with the frame 5. This frame 9^a is provided with a flat portion 9^b, (see Figs. 1, 3, 4, and 5,) which rests upon the floor when in the position shown in Figs. 1 and 5, and thereby keeps it and all connected with it in an upright position until it is necessary to turn it over to dump the water out of the spittoons, as will appear farther on. At the opposite side of the flat portions of the frames 4 and 5 is pivoted by a hinge 10 (see Figs. 2 and 3) another plate or board 11, having a corresponding series of semicircular openings 12, so that when the two are closed together they form circular openings, substantially as shown in Fig. 2, in which the necks of the spittoons are secured when washing them. To keep the hinged plate or board 11 in place when closed, a flat iron bar 13, provided with turned-up end 13^a, is rigidly secured by screws 14 to the top of the board or plate 8, so as to have room for the plate 11 to slip in between the bar 13 and the flat top of the frame-piece 5, and thereby hold it securely, so that it cannot move up or down. To hold the board or plate 11 shut when closed, as in Fig. 2, I employ a small hook-catch 15. (See Fig. 2, where this well-known hook-catch is more clearly shown.) At the top of the base a supporting-frame is pivoted by pins 16 to upright arms 17 and 18. At the lower end of these upright arms are two oppositely-projecting toes 19 and 19^a for limiting the swinging movement of the arms 17 and 18 either way. To the tops of the arms 17 and 18 is secured by screws 19^b (indicated on the inner under side of the arms 17 and 18) a horizontal water trough or tube 20, extending the whole length of the machine. This tubular

trough is provided with a long horizontal opening 21 (see Figs. 1, 4, and 5) and with a forward-projecting lip 22 in front of said opening 21, over which the water flows when the machine is in operation. In or about the center of the tubular trough is a funnel-shaped inlet 23, through which the water is supplied to the machine; but any well-known water-supplying device may be used.

At the base of the machine, within the end frame-pieces 1, is located the waste-water receptacle 24. It is placed on an incline, so as to afford a free outlet and provided with an outlet-pipe 25 (see Fig. 1) leading to a sewer or other convenient place for receiving the waste water; or the water may run directly into the sewer, in which case the tank could be dispensed with.

The operation of the machine is as follows: The spittoons being put into the machine, substantially as shown in Fig. 1, and secured by the catch 15, as hereinbefore mentioned, water is supplied from any suitable source to the funnel 23, which flows out through the long horizontal opening 21 into the spittoons, (see Fig. 3,) thereby washing them on the inside, the bottom 9^c of the frame-piece 9^a supporting the spittoons and their holding-frame in an upright position. The framework supporting the spittoons is now reversed, bringing the whole series of spittoons into the position shown in Fig. 4. Water is now allowed to flow, as before, to wash the outsides, after which they are again brought to an upright position, as shown in Fig. 1, and the hinged side 11 of the holding-frame is released from the hook-catch 15 and opened out, substan-

tially as shown by the dotted lines 27 in Fig. 2, and the spittoons are easily removed.

This invention is designed to be used in connection with a device for carrying spittoons for which I filed an application for a patent December 22, 1894, Serial No. 532,637, by which the whole series of spittoons can either be put in place at once or as easily removed. By means of this invention, in connection with the above-mentioned application, the spittoons may be carried, put into the machine, the contents dumped out, and the spittoons washed inside and outside without in any way coming in contact with or soiling the hands.

I claim as my invention—

A machine for cleaning spittoons, consisting of a supporting frame carrying a tubular water trough having a long narrow opening extending horizontally nearly the length of the trough, means for supplying it with water, a reversible supporting frame mounted on pivotal supports and having its top composed of two parts, a series of corresponding semi-circular openings in each part, one part of which is rigidly secured to the frame-work, the other being hinged or pivoted at one end, and means for securing it when shut, whereby a series of spittoons may be secured in the machine and washed inside and out, and then released and removed, substantially as described.

CHARLES E. KOCH.

Witnesses:

JAMES SANGSTER,
L. M. SPONG.