G. W. ARCHER.
Dental-Spittoon.

No. 210,484. Patented Dec. 3, 1878.

Fig. 1.

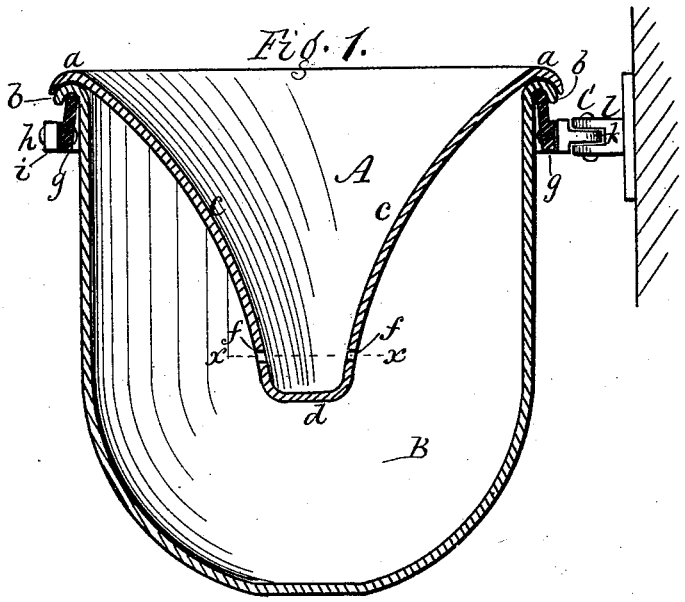


Fig. 3.

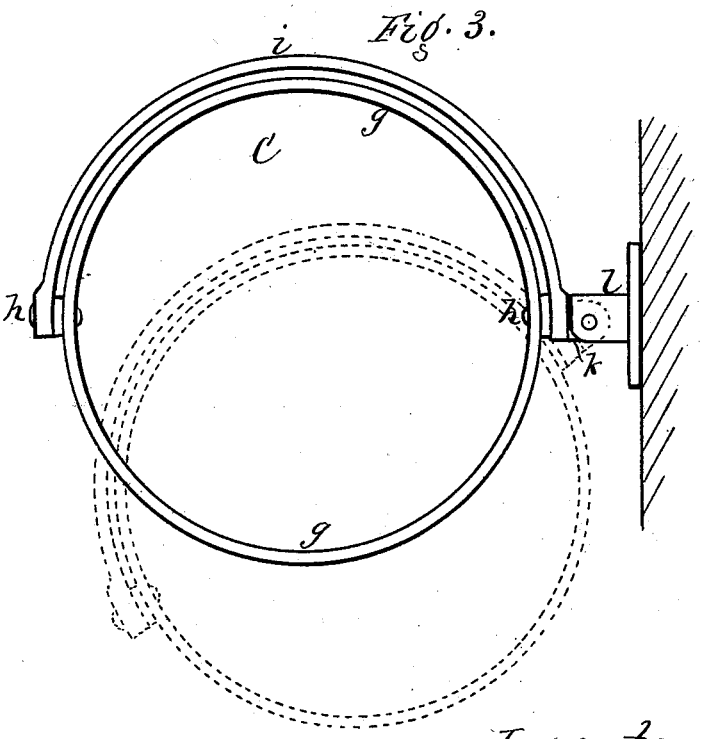
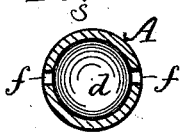


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE W. ARCHER, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN DENTAL SPITTOONS.

Specification forming part of Letters Patent No. **210,484**, dated December 3, 1878; application filed May 11, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. ARCHER, of the city of Rochester, county of Monroe, and State of New York, have invented a certain new and useful Improvement in Dental Spittoons; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a central vertical section of my improvement. Fig. 2 is a cross-section in line *x x* of Fig. 1. Fig. 3 is a plan of the swinging frame for supporting the spittoon.

My improvement relates to those spittoons which are attached to the side of dental chairs, and are arranged to catch and retain the gold-fillings which fall therein.

The invention consists in the construction of the spittoon proper in a single piece, provided with perforations some distance above its bottom, whereby the gold-fillings are deposited and settle at the bottom, while the liquid contents pass through the perforations.

It also consists in the combination, with the swinging frame for supporting the spittoon, of coincident curved flanges, formed on the spittoon and receiver, resting upon the pivoted ring of the frame, as hereinafter described.

In the drawings, A represents the spittoon proper; B, the receiving-vessel, and C the hinged and swinging frame.

The spittoon and the receiving-vessel are both, preferably, made of glass, and of the form shown, the interior vessel resting upon and within the exterior one, being supported at the top by a curved flange, *a*, which rests upon a similar flange, *b*, of the receiving-vessel, which, in turn, rests upon the swinging frame, as clearly shown in Fig. 1. The spittoon is made with flaring sides *c c* and a closed bottom, *d;* but at some distance above this bottom are perforations *f f* through the sides.

By means of this construction the gold-fillings which fall into the spittoon, being heavy, settle and deposit in the closed bottom below the perforations and are retained, while the liquid contents pass through the perforations into the receiving-vessel, which presents considerable space beneath the spittoon. When a quantity of the fillings have accumulated they can be readily removed, the bottom presenting a smooth surface, which prevents adhesion and consequent loss.

Heretofore, so far as I am aware, only an open-bottomed spittoon has been used, and a metallic cage or strainer has been hung below the open bottom to catch the fillings, and the latter entering the perforations are with difficulty removed, and more or less loss ensues, besides being very difficult to clean.

The swinging frame C consists of an inner ring, *g*, which is pivoted or jointed at *h h* to a half-circular outer ring, *i*, so as to turn vertically in either direction, forward or back. The outer ring on one side has a lug, *k*, which is pivoted to turn horizontally in a bearing, *l*, which is screwed to the side of the chair. This is clearly illustrated in Figs. 1 and 3. The outer receiving-vessel, B, is set into the ring *g*, its curved flange *b* resting over the top of the ring, as before described. In this condition, when the chair is tilted backward or forward the weight of the spittoon and receiving-vessel will cause the ring to maintain a horizontal position within its frame *i* by reason of being pivoted to it, thus always keeping said spittoon and receiving-vessel level, and preventing any spilling of the contents; also, by reason of the hinging of the outer ring, *i*, to the side of the chair, the device can be turned horizontally backward or forward to any desired position, as indicated by the dotted lines, Fig. 3. When turned fully forward to the right-angled position, the horizontal hinge forms a stop.

This device, while presenting both vertical and horizontal pivoted bearings, is simple and effective, and the receiving-vessel and spittoon have simply to be set in and taken out.

Having thus described my invention, I claim—

1. In a dental spittoon, the spittoon A, constructed with a closed bottom, *d*, to receive and retain the gold-fillings, and perforations *f f* above the bottom, to allow discharge of the liquid contents.

2. In combination with the swinging frame C, provided with the pivoted ring *g*, the two

vessels A B, provided at their upper end with coincident curved flanges *a b*, the flange of the lower or outer vessel resting directly upon said ring, and the flange of the upper or inner vessel resting on that of the lower one, the whole arranged so that the said vessels are self-centering, and can be detached by simply lifting off, as shown and described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GEO. W. ARCHER.

Witnesses:
R. F. OSGOOD,
R. E. WHITE.