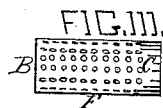
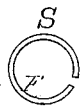
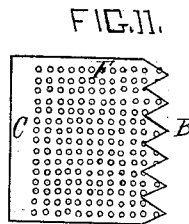
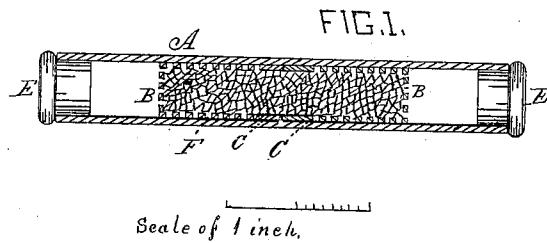


G. L. CHAPIN.

Improvement in Inhalers.

No. 132,197.

Patented Oct. 15, 1872.



WITNESSES
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UNITED STATES PATENT OFFICE.

GEORGE L. CHAPIN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN INHALERS.

Specification forming part of Letters Patent No. 132,197, dated October 15, 1872.

To all whom it may concern:

Be it known that I, GEORGE L. CHAPIN, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Inhaler, of which the following is a specification:

The nature of the present invention consists in providing the inhaling-tube with a removable perforated receptacle of peculiar construction, which is held in the tube by the spring of the envelope of which the receptacle is formed, and which holds the inhaling absorbent material.

In the drawing, Figure 1 is a longitudinal section of my improved inhaler; Fig. 2, a view of the perforated plate as it is cut preparatory to being formed into a receptacle; Fig. 3, an elevation of the absorbent receptacle removed from the inhaling-tube; and Fig. 4, a transverse section of the device.

A represents a suitable inhaling-tube, made of glass or other material, and of suitable size, to be placed in the mouth or nostril, the ends being closed with corks E when it is not in use. The absorbent receptacle is made in one or more parts, of perforated sheet metal, first cut in the form shown in Fig. 2, the end B being notched out so that one piece of metal will form the end and periphery of the receptacle, as shown in Fig. 1. The perforated plate thus formed or cut is, by means of suitable dies, made in a cylindrical shape, with a perforated end and periphery, the two edges of the metal

being brought together, but not overlapping each other.

In manufacturing the receptacles all are made to fit the smallest tubes, and to provide means for fitting the different-sized larger tubes the open ends of the receptacles are, by means of the seams or joints in their peripheries, opened or enlarged so as to fill the tubes and be held there by the spring of the metal. This arrangement is a very important one; otherwise a separate die would have to be made for every different-sized tube, which is cast in tapering pipe when made, and consequently, when cut up, is of unequal size as compared with other tubes in the same lot.

In practice I usually use two receptacles, placing their two open ends together, after filling them with fine-cut sponge to absorb the inhaling substance; but only one need be used if both ends are closed. I prefer two receptacles, however, as the sponge can be more readily removed and replaced.

Having thus described my invention, what I claim is—

A sponge-receptacle formed of one or more pieces of sheet metal, closed at the end, as described, and held in the inhaling-tube A, as and for the purpose set forth.

GEORGE L. CHAPIN.

Witnesses:

D. HARRY HAMMER,
GEORGE P. POPE.