

No. 722,784.

PATENTED MAR. 17, 1903.

G. L. WERNET.
POWDER DISPENSING DEVICE.
APPLICATION FILED OCT. 18, 1902.

NO MODEL.

FIG. 1.

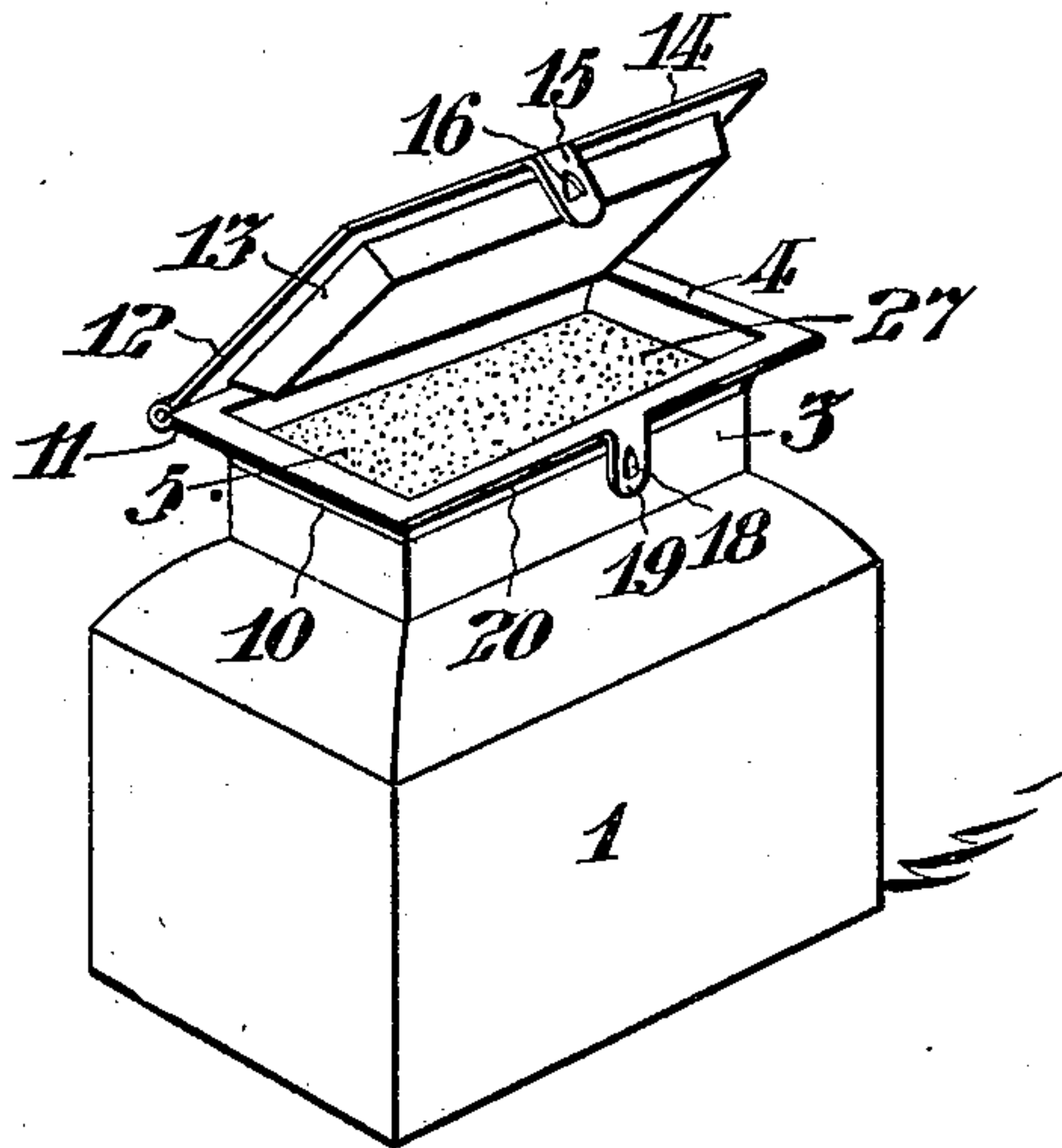


FIG. II.

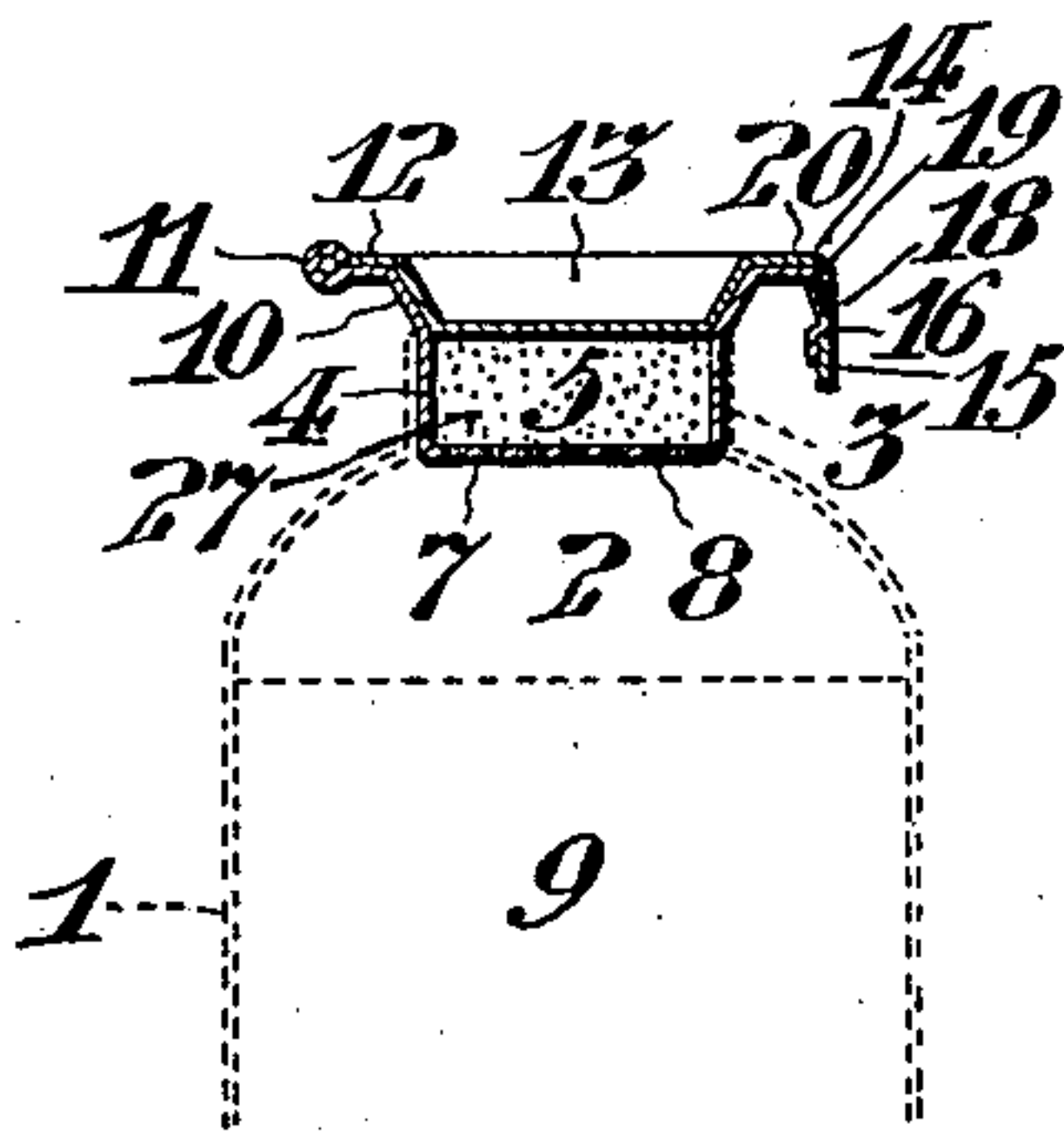
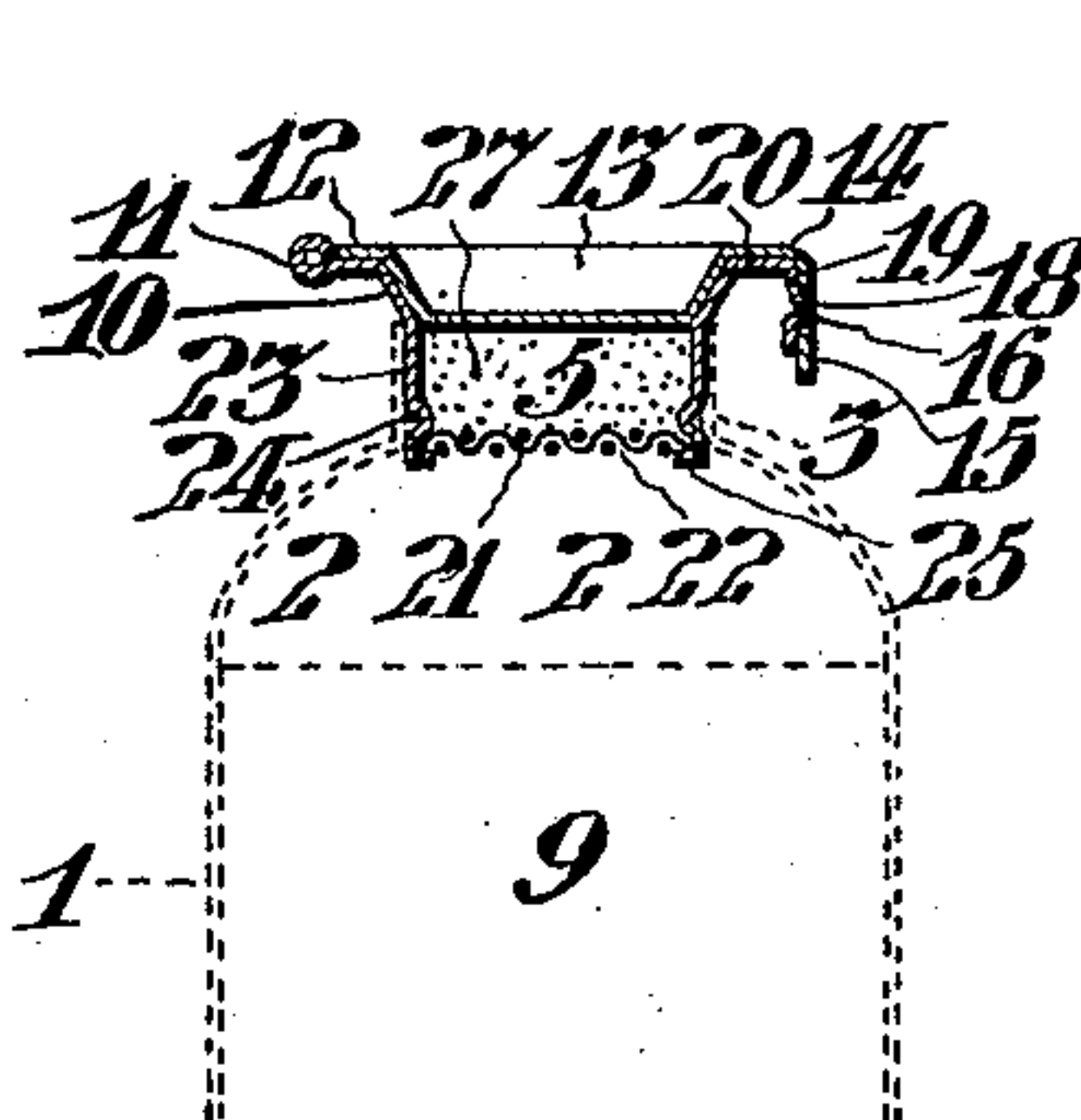


FIG. III.



WITNESSES:

WITNESSES:
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By his Attorney
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UNITED STATES PATENT OFFICE.

GEORGE L. WERNET, OF PHILADELPHIA, PENNSYLVANIA.

POWDER-DISPENSING DEVICE.

SPECIFICATION forming part of Letters Patent No. 722,784, dated March 17, 1903.

Application filed October 18, 1902. Serial No. 127,888. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. WERNET, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Powder-Dispensing Devices, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to receptacles for dental and other polishing powders, arranged to dispense definite quantities of powder for use upon brushes, or other polishing implements. It is the object of my invention to provide such a device with means to separate the desired quantity for dispensation from the bulk of powder contained in the receptacle in such manner as to afford ready access to the selected portion without permitting its accidental distribution.

Generally stated, my invention comprises the combination with a reservoir chamber containing the powder in bulk; of an auxiliary chamber separated from the main chamber by a foraminous diaphragm and provided with an exterior movable cover, by which latter access may be had to the interior of said auxiliary chamber, to remove therefrom the selected quantity of powder charged therein, from the reservoir chamber, through said diaphragm.

My invention comprehends the various novel features of construction and arrangement hereinafter more definitely specified and claimed.

In the accompanying drawings, Figure I, is a perspective view of a receptacle conveniently embodying my improvements.

Fig. II, is a cross sectional view showing the details of construction of the auxiliary chamber embodied in Fig. I.

Fig. III, is a cross sectional view similar to Fig. II, but showing a modified form of my invention.

In said figures,—1, is the main casing inclosing the reservoir chamber 2, and conveniently provided with the neck 3, to receive the dispensing casing 4, inclosing the auxiliary chamber 5. The chambers 2, and 5, are separated by the foraminous diaphragm 7, which, as indicated in Fig. II, is conveniently formed in integral relation with the casing 4, and comprises apertures 8, through which lat-

ter the powder 9, contained in the chamber 2, may be introduced to the chamber 5.

The upper portion of said casing 4, comprises the outwardly flaring walls 10, one of which is provided with hinge-lugs 11, registering with the corresponding hinge lugs 12, upon the movable cover 13. Said cover 13, is formed with a depressed central portion and outwardly and upwardly flared margins which fit snugly within the flaring walls of the casing 4, when closed, as shown in Fig. II. The edge 14, of said cover 13, is provided with the spring hasp 15, whose opening 16, registers with and detachably engages the corresponding projection 18, upon the flange 19, depending from the edge 20, of the casing 4. It is to be understood that when said cover 13, is closed, the hasp and flange are engaged as shown in Fig. II, so that the cover is retained in closed powder tight relation to the casing 4, but, said cover may be released by springing the hasp 15, outwardly and uplifting the same as indicated in Fig. I.

In the form of my invention shown in Fig. III, the diaphragm 21, comprising the openings 22, is detachably secured in the dispensing casing 23, beneath the projections 24, and above the projections 25; the arrangement being such that said casing 23, may be permanently secured in the main casing 1, and the latter be filled with powder 9, through said casing 23, before the insertion of the diaphragm 21.

The operation of my invention is as follows:—

It being desired to dispense a definite amount of the powder 9, contained in the reservoir 1; the cover 13, is closed and the whole device shaken or inverted, so that the powder is charged from the main chamber 2, into the auxiliary chamber 5, where it is retained by the diaphragm, as indicated in Fig. II; then, the cover 13, may be opened as indicated in Fig. I, and the definite amount of powder 27, be removed therefrom upon a moistened brush or any other suitable implement; whereupon, the operation may be repeated. It is to be noted that the walls of the casing 4, prevent the scattering of the powder inclosed therein during the process of removing the latter.

Although I find it convenient to manufac-

ture both the main casing and the dispensing casing of sheet metal, as indicated in the accompanying drawings, it is obvious that other materials may be employed in either casing, and, it is to be understood that I do not desire to limit myself to the precise details of construction and arrangement herein shown.

I claim—

1. In a powder dispensing device, the combination with a reservoir chamber, of an auxiliary chamber, projections upon the inside of the walls of said auxiliary chamber, a foraminous diaphragm separating the two chambers and in direct contact with and supported by said projections, and a movable cover for said auxiliary chamber, substantially as described.

2. A tooth powder receptacle or chamber, having the upper portion of its walls inclined upwardly and inwardly to an opening in said receptacle, a neck inclosing said open-

ing, an auxiliary chamber adapted to be inserted in said neck, and secured therein, a foraminous diaphragm separating the said chambers and being flush with the upper edges of the walls of the first named chamber, a seat integral with the walls of the said auxiliary chamber and extending upwardly and outwardly from the upper edges of said walls, a sheet metal cover formed with a depressed central portion and with outwardly and upwardly flared margins and adapted to be closely fitted to said seat, and means to detachably secure said cover in closed position, substantially as described.

In testimony whereof I have hereunto signed my name, at Philadelphia, Pennsylvania, this 15th day of October, 1902.

GEORGE L. WERNET.

Witnesses:

THOS. K. LANCASTER,
L. KLEINFELDER.