

No. 748,494.

PATENTED DEC. 29, 1903.

W. Q. GANSEN.
DISPENSER FOR POWDERED MATERIAL.

APPLICATION FILED JUNE 25, 1903.

NO MODEL.

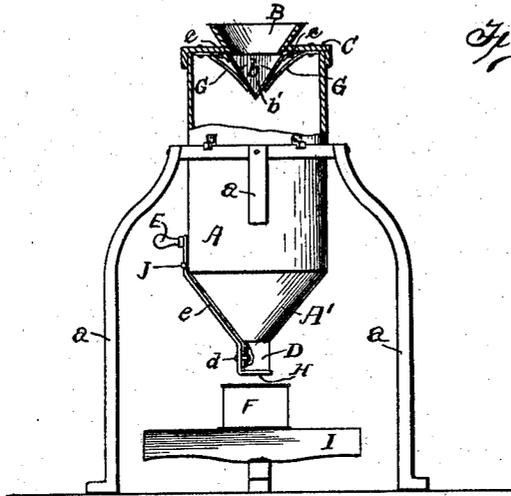


Fig. 1.

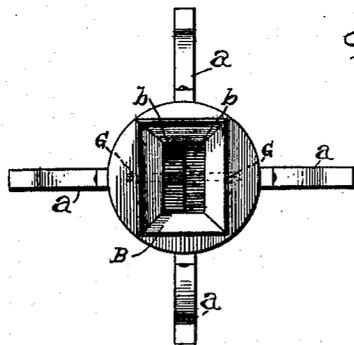


Fig. 2.

WITNESSES:

W. L. Kitchin

William T. Jones

INVENTOR

William Q. Gansen

BY

Macmillan & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM Q. GANSEN, OF MARION, WISCONSIN.

DISPENSER FOR POWDERED MATERIAL.

SPECIFICATION forming part of Letters Patent No. 748,494, dated December 29, 1903.

Application filed June 25, 1903. Serial No. 163,141. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM Q. GANSEN, a citizen of the United States, residing at Marion, in the county of Waupaca and State of Wisconsin, have invented new and useful Improvements in Dispensers for Powdered Material, of which the following is a specification.

My invention relates to improvements in apparatus for dispensing powdered material; and the object of my invention is to so confine the powder while dispensing it from a large container into small containers that it will not arise in the air, so as to waste or be inhaled by the operator.

My invention is of especial value in dispensing paris-green and other poisonous powders.

In the accompanying drawings, Figure 1 is a side view of my invention with a portion of the container cut away to show the hopper, and Fig. 2 is a plan view of my invention.

Similar letters refer to similar parts in each view.

A represents the large container supported by the legs *a a a* and terminating in a funnel-shaped base *A'*, leading to the outlet-spout D.

The top of the container C is closed except for the opening into the hopper B, which extends above the top C and leads down through the top into the container A. Beneath the top C the sides of the hopper *b b* are hinged or otherwise flexibly attached to the under side of the top at *c c* and converge until they normally come together. The ends of the hopper *b' b'* are perpendicularly arranged and rigidly attached, so as to conform to the sides *b b* and constitute an impervious top when closed.

The springs G G operate to close the sides *b b*. They are constructed of a flexibility to correspond with the weight of the material entering the hopper and may be arranged so as to vary the tension.

The weight of the material deposited in the hopper will spread the sides *b b*, so as to admit the material into the container A, and at the same time the springs G G will bear

against the sides *b b*, so as to confine the material sufficiently to prevent the dust or powder from arising into the air above. As soon as the hopper becomes empty the springs G G automatically close the sides *b b* together and confine the powdered material.

H represents an imperforate gate or cut-off closing the lower end of the spout D.

F represents a small container in position to be filled.

I represents a support, which may be the platform of ordinary weighing-scales.

The gate D is operated by handle E, attached to the rod *e*, which is adapted to be revolved laterally to open and close the gate, the rod *e* being journaled to the spout at *d*.

In the operation of my invention the large container is first filled through the hopper in the manner described, and then the gate H is operated to release the powder and permit it to descend by gravity into small containers.

J represents a stop that the rod *e* closes against. A retaining-spring may also be provided.

Having thus fully described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

1. In a device of the class described, the combination with a receptacle, of a cover therefor formed with an aperture, downwardly-tapering vertical, fixed plates spaced apart beneath said aperture and carried by said cover, doors hinged to the cover, and cushioning means normally supporting the same in inclined planes in contact with the edges of said plates and with the lower edges of the doors contacting.

2. In a device of the class described, the combination with a receptacle formed with a discharge, a rod pivoted to said receptacle and adapted to swing in a vertical plane, and a gate carried by the said rod designed to close said discharge.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM Q. GANSEN.

Witnesses:

JOHN L. GANSEN,
A. R. WATERHOUSE.