

W. R. Worden.

Sprinkler

N<sup>o</sup> 75717

Patented Mar. 17, 1868

Fig. 1.

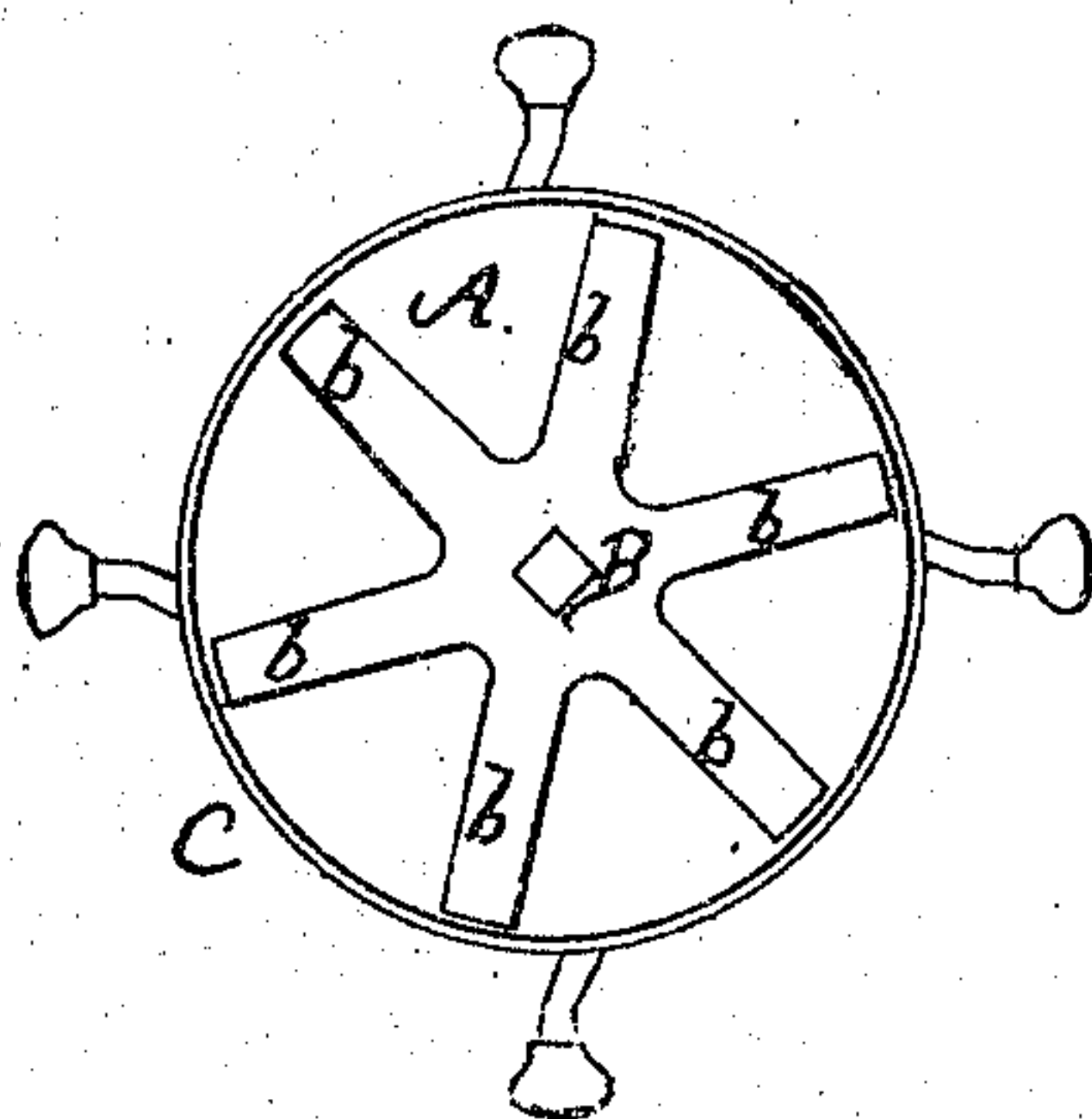


Fig. 2

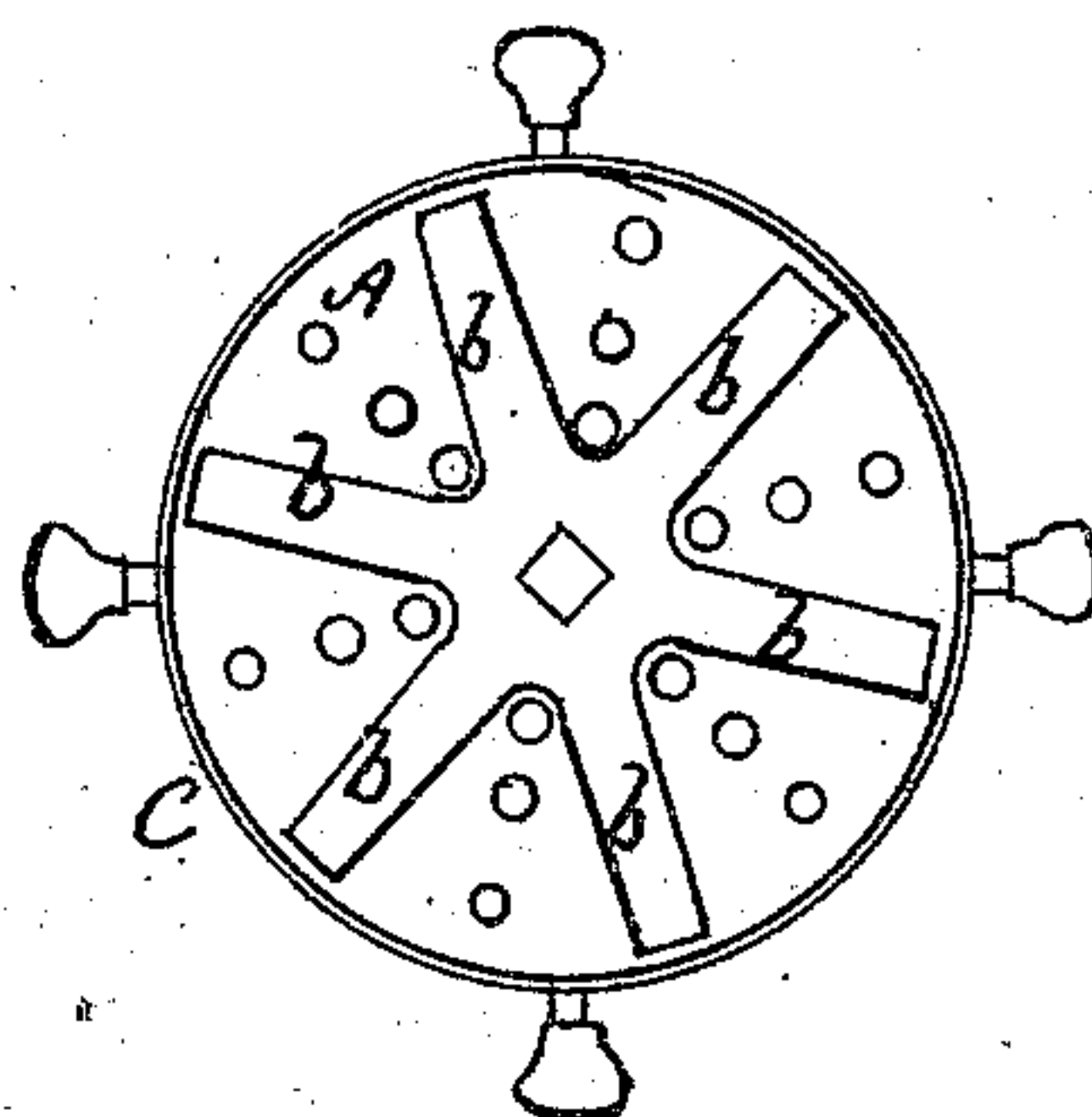


Fig. 3

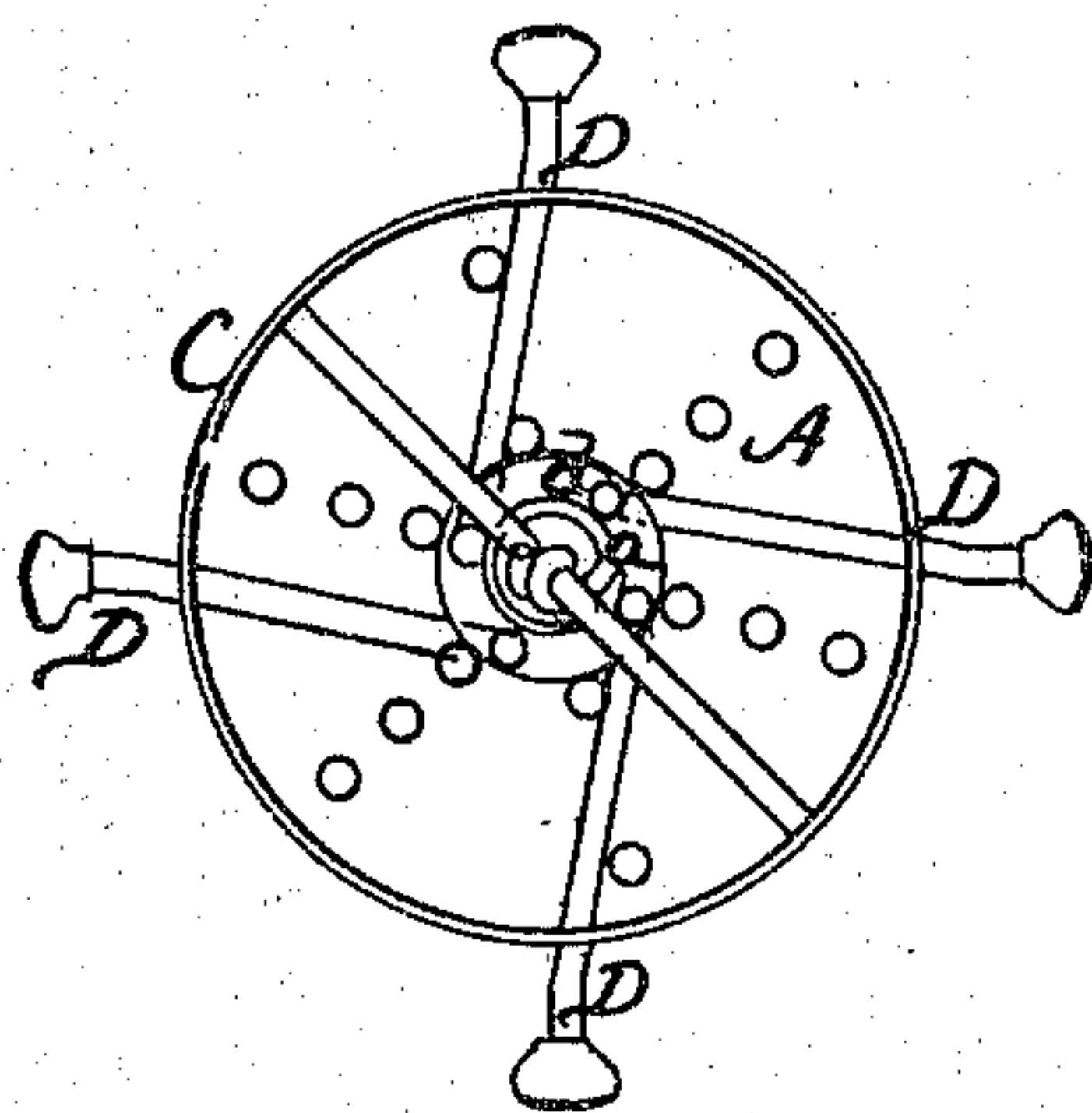
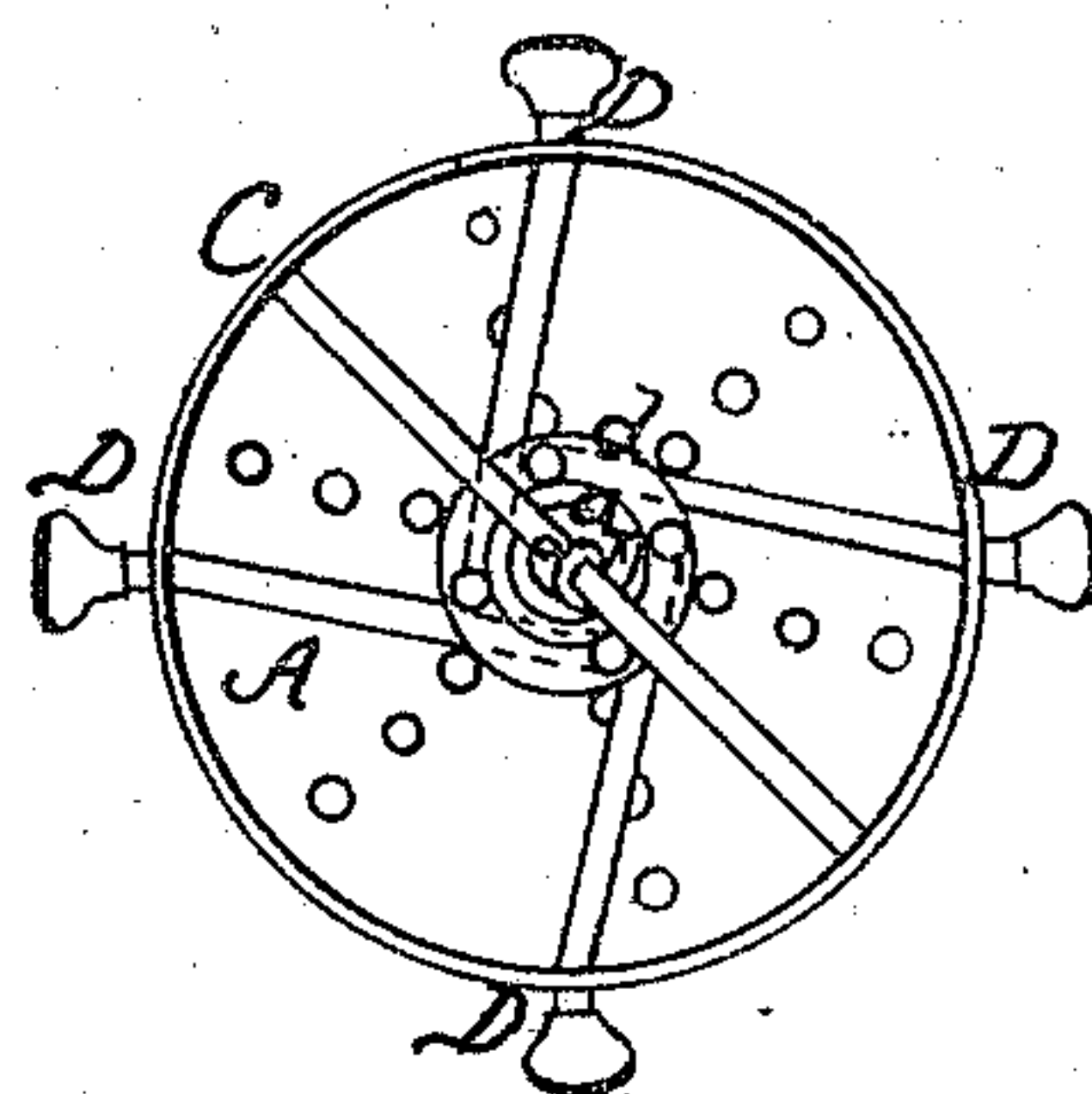


Fig. 4.



Witnesses

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# United States Patent Office.

WILBUR R. WORDEN, OF NEW HAVEN, CONNECTICUT.

*Letters Patent No. 75,717, dated March 17, 1868.*

## IMPROVED SPRINKLER.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILBUR R. WORDEN, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Sprinklers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view from one side, the perforations closed.

Figure 2, the same view, the perforations open.

Figure 3, the reverse side, the perforations closed; and, in

Figure 4, the same, with the perforations open.

This invention relates to an improvement in or attachment to boxes or bottles, such as are commonly used for sprinkling salt, pepper, and like substances, the object being to prevent the clogging in the bottle; and

The invention consists in a plate perforated radially, and having attached thereto a plate with radial arms, the said arms corresponding to the perforations in the first plates and an attachment to the said arms, so that they may be moved from and so as to open the perforations, and by the reaction of a spring return to cover the same.

In order to the clear understanding of my said invention, I will fully describe the same as illustrated in the accompanying drawings.

A is a plate of metal, or similar material, perforated radially, as seen in figs. 2, 3, and 4. Lying close down upon the plate A, and pivoted centrally thereon, is a plate, B, with arms, *b*, corresponding to and so as to cover the said perforations, as seen in fig. 1. The plate A is surrounded by a rim or band, C, the said band being formed so as to be attached to the bottle or box containing pepper, salt, or whatever it may be, and through the said rim C, rods D, more or less in number, extend, and are pivoted to the plate B, or to a plate, *d*, upon the opposite side, as seen in figs. 3 and 4. Eccentric to the said plate B, so that by pressing upon one or more of the said rods the arms of the plate B are turned from over the perforations, as seen in figs. 2 and 4, and in connection with the said plate B, is arranged a spring, *a*, which, when the pressure upon the rods is removed, returns the arm so as to cover the perforations, as seen in fig. 1.

To use this improvement, support the box over the place where the contents are to be deposited, with this apparatus downward and the contents above it, then press the rods D so as to turn the arms from the perforations, and allow them to return, and so continue to remove and return the arms over the perforations until the requisite quantity of material in the bottle or box has been deposited. The continued movement or vibration of the arms serves to agitate the contents sufficiently to prevent the clogging of the same.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The arrangement of the plate B with its arms, *b*, upon the plate A, with its perforations corresponding to the said arms, and combined with one or more operating-rods, D, and return spring *a*, the whole to operate in the manner substantially as set forth.

WILBUR R. WORDEN.

Witnesses:

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