

(No Model.)

T. W. BRADFIELD.
RECEPTACLE FOR SPICES.

No. 523,321.

Patented July 24, 1894.

Fig 1

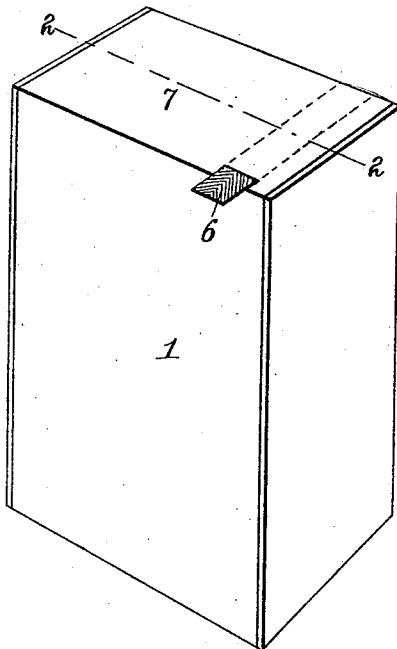


Fig 2.

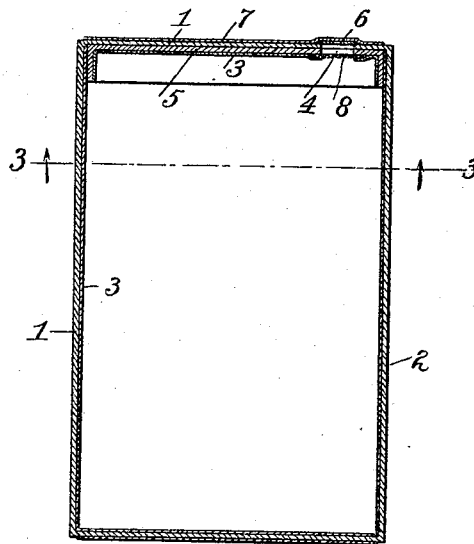


Fig 5.

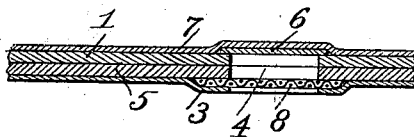


Fig 4.

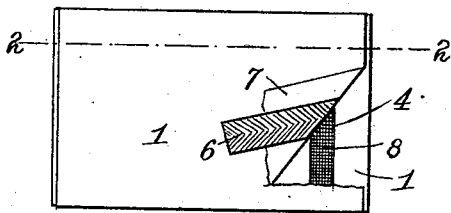
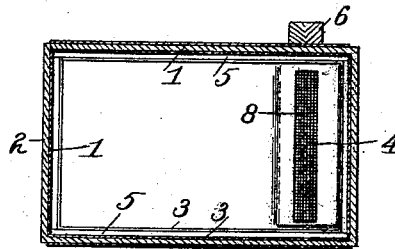


Fig 3



Witnesses

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UNITED STATES PATENT OFFICE.

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RECEPTACLE FOR SPICES.

SPECIFICATION forming part of Letters Patent No. 523,321, dated July 24, 1894.

Application filed March 26, 1894. Serial No. 505,105. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. BRADFIELD, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Receptacles for Spices, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to boxes, packages, or receptacles for containing pepper, mustard, and various other kinds of spices, generally, and for retaining such and any other pulverized or granulated commodities in perfect condition while awaiting disposal by sale or in any other similarly comparatively gradual manner. My invention relates more particularly to paper receptacles for the described purposes, as distinguished from metal or wooden receptacles.

Among the primary objects of my invention is included that of producing a spice box or receptacle which shall be simple, strong, durable and inexpensive in construction, capable of preserving the commodity in perfect condition while awaiting sale, and also capable of use by the purchaser as a convenient and effective dredge-box or shaker; the transformation of the receptacle from a containing package to a dredge or shaker being quickly and easily effected and in no way lessening the other advantages of the package.

The above-mentioned objects, and also such others as may appear from the ensuing description, are attained by the structure shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a pepper-box embodying my invention; the box being in closed or sealed condition. Fig. 2 is a sectional view of the same, taken on the line 2—2 of Fig. 1. Fig. 3 is a sectional view of the same, taken on the line 3—3 of Fig. 2; the direction of view being upward. Fig. 4 is a plan view of the box, showing it in condition for use as a shaker or dredger. Fig. 5 is an enlarged detailed sectional view of the sifter, and seal and tearing attachments.

In the said drawings, 1 designates the body of a box or receptacle embodying my invention. This body is constructed of paper, or

what is known as paper-board, of any appropriate thickness according to the particular use to which the box is to be put in any given instance. The outer surface of the box may be covered, either entirely or as much as desired, with a suitable paper wrapper 2, ornamented and inscribed in any desired manner, while within the box may be placed a lining 3 of a suitable impervious material, preferably real or imitation parchment, although paraffine paper, or any other impervious lining may be used; the intention being to retain all of the essential oil and aroma of the spice.

With the exception of the use of paper for forming the box or receptacle body, the structural features above specified are all capable of great variation within the spirit of my invention. The use of paper for forming the body of the box or receptacle is peculiarly advantageous on account of its cheapness, imperviousness to air, and freedom from liability of breakage, rupture or perforation in transportation. The form or shape of the box or receptacle is also susceptible of wide variation. The box shown in the drawings is of oblong rectangular shape, but it may be polygonal, cylindrical or of any desired shape, and also flattened or elongated as preferred.

In accordance with my invention, I form a slot or opening entirely through the wall of the box at any desirable point and provide a perforated or reticulated piece which extends completely across the slot or opening in all directions. I also provide an external cover or seal for closing the slot or opening during the time that the commodity is on sale, and finally I provide a tearing-strip or piece by means of which the seal or cover can be readily laid open to permit the discharge of the commodity from the box or receptacle through the perforated or foraminous distributor. The seal or cover for the slot or opening may be either a part of the usual wrapper, or a separate piece, as circumstances may render desirable.

4 designates the slot or opening. It is shown as of oblong rectangular shape and as formed through one end (or the top) of the box. The shape of the slot or opening may, however, be varied as desired; the opening being mar-

ginally either circular, polygonal, oval, or of any other form desired. Neither is the precise location of the opening material. It may be located at any part of either the top or bottom of the box, or at any part of either side thereof.

5 designates a reinforce-piece of paper or card-board, pasted or otherwise attached to the inner surface of that part of the box through which the slot or opening 4 is formed. This reinforce-piece is also formed with a slot or opening corresponding in form with the opening 4 and registering therewith. As shown, the reinforce-piece extends over the entire inner surface of that end of the box through which the opening 4 is formed and the marginal portions of the reinforce lap inward against the adjacent sides of the box. This is a desirable arrangement, inasmuch as it effectively overcomes any possible weakening of the box due to the presence of the opening 4. However, the reinforce-piece need not always be of such size as to cover the entire area of the part through which the opening is formed; it being sufficient if the reinforce covers the surface contiguous to and generally adjacent to the opening.

6 designates a tearing-piece which is either of tough paper, woven fabric, or of any suitable material, this strip being either of narrow form, as shown, or of any form to accord with the shape of the opening 4. As shown, a separate sealing or closing-piece 7 extends over the opening 4 so as to normally close the same, and the tearing-piece is interposed between said closing-piece, and the tearing-piece 6 is interposed between the inner surface of the covering-piece and the outer surface of the box-body. However, the usual inscribed wrapper may be so extended over the opening 4; the closing-piece 7 being then either retained or dispensed with, as preferred, and the tearing-piece being covered by the wrapper. The tearing-piece may be pasted or attached at its inner end to the box-body or to the closing-piece, or to the wrapper, or throughout its length to the closing-piece or wrapper; the outer extremity of said tearing-piece protruding freely, however, so as to be easily grasped for use.

Across the opening 4 extends a foraminous sifter 8, shown as a piece of wire cloth, but permissibly of any material, such as perforated metal, perforated paper, open mesh fabric of any sort, or any material having numerous small openings through which the spice can be readily sifted after the closing-piece or wrapper has been ruptured by the tearing-strip or piece. The foraminous sifter 8 is of greater size or area than the opening 4 so that the marginal or edge portions of the sifter lap beneath the margins of the slot or opening in the reinforce-piece 5 against the inner surface of which the sifter directly abuts. The lining 3 is slotted or formed

with an opening corresponding in form and position with the openings in the box-body, and in the reinforce, and the edges of the sifter are shown as held between the margins of the openings in the reinforce and lining; glue, paste or any equivalent material or means being applied at this point to aid in holding the sifter in position. Obviously, the foraminous piece 8 may be interposed between the body of the box and the reinforce without departing from the essential spirit of my invention.

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

1. A receptacle for spice, &c., comprising a body-portion provided with an opening of a limited area for the discharge of spice, a foraminous sifting-piece extending entirely across said opening, and a rupturable closing-piece also extending entirely across said opening, substantially as set forth.

2. A receptacle for spice, &c., comprising a body-portion formed of paper and provided with an opening for the discharge of spice, an internal foraminous sifting-piece extending entirely across said opening, and an external rupturable closing-piece also extending entirely across said opening, substantially as set forth.

3. A receptacle for spices, &c., comprising a body-portion formed of paper and provided with an opening for the discharge of spice, a foraminous sifting-piece extending entirely across said opening, a rupturable closing-piece also extending entirely across the opening, and a tearing-piece located beneath the closing-piece, substantially as set forth.

4. A receptacle for spices, &c., comprising a body-portion having an opening for the discharge of spice, an internal foraminous sifting-piece covering said opening, an internal reinforce secured to the body adjacent to the opening thereof, and an external rupturable closing-piece for said opening, substantially as set forth.

5. A receptacle for spice, &c., comprising a body-portion of paper having an opening for the discharge of spice, an internal foraminous sifting-piece closing said opening, an internal paper reinforce, and an internal impervious lining secured to the body adjacent to its opening, and an external rupturable paper closing-piece covering said opening, substantially as set forth.

6. A receptacle for spice, &c., comprising a body-portion provided with an opening, a wire cloth sifting-piece extending across the opening, and a rupturable closing-piece also extending entirely across said opening, substantially as set forth.

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Witnesses:

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