No. 834,314. PATENTED OCT. 30, 1906.

G. F. MILLER.

SIFTER TOP POWDER BOX OR CAN.

APPLICATION FILED OCT. 30, 1905.

Fig. 1

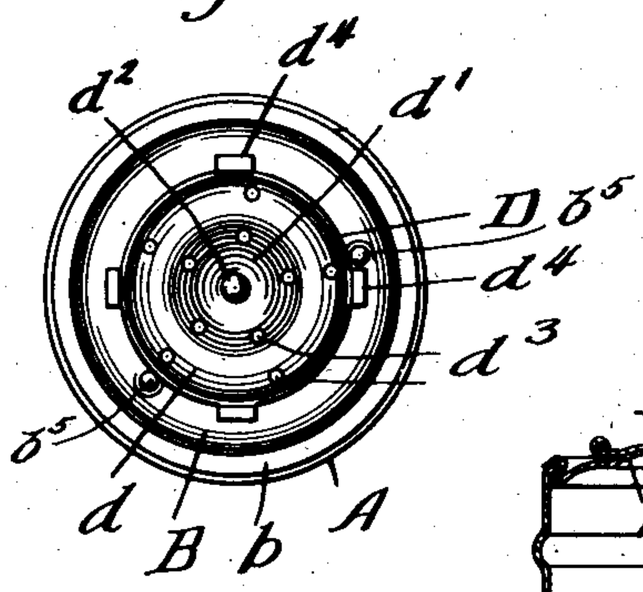


Fig. 2

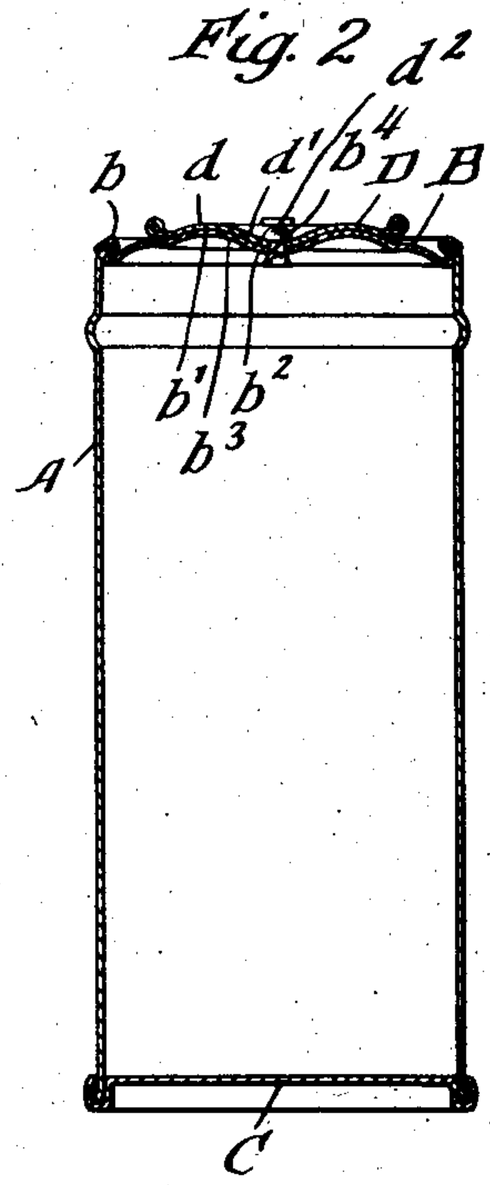


Fig. 3

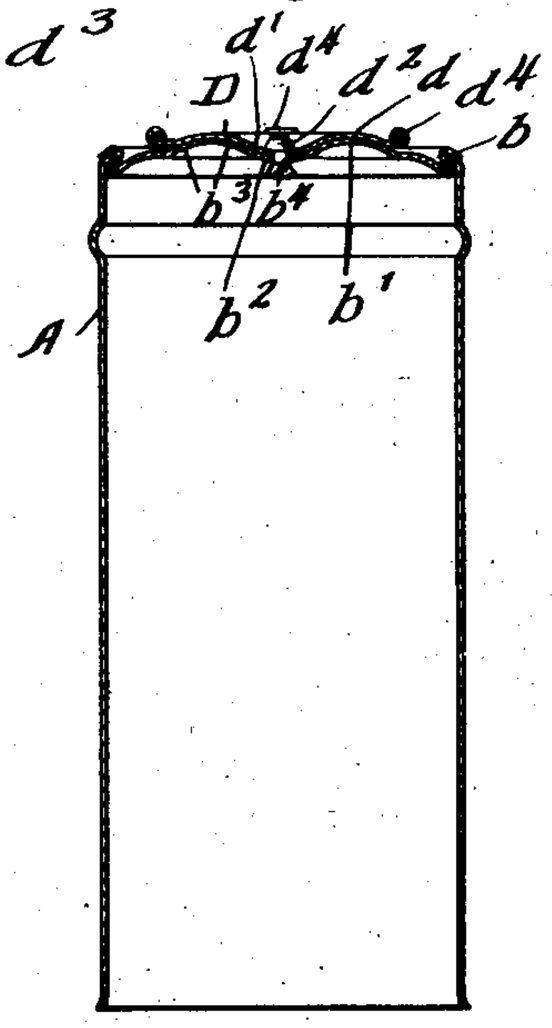


Fig. 4

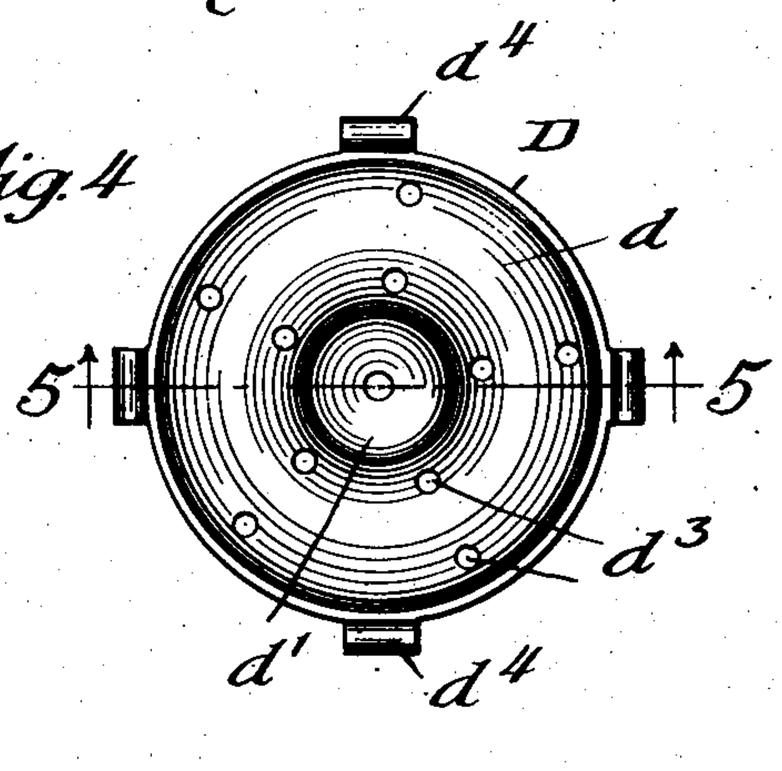
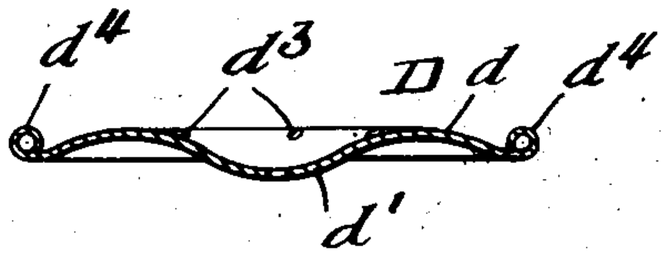


Fig. 5



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UNITED STATES PATENT OFFICE.

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SIFTER-TOP POWDER BOX OR CAN.

No. 834,314. Specification of Letters Patent. Patented Oct. 30, 1906.

Application filed October 30, 1905. Serial No. 284,949.

To all whom it may concern:

Be it known that I, GEORGE F. MILLER, a citizen of the United States, residing in the borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Sifter-Top Powder Boxes or Cans, of which the following is a specification.

My invention relates to improvements in sheet-metal powder boxes or cans having sifter-tops.

The object of my invention is to provide a sifter-top can or box of a neat, simple, and efficient construction, capable of being cheaply manufactured, in which the perforated top is permanently and irremovably fixed or seamed to the body of the can or box and in which the rotary perforated closing-plate may be conveniently and easily turned to cause the perforations therein to register with those in the perforated top.

My invention consists in the means I employ to practically accomplish this object or result—that is to say, it consists, in connection with the body of the can or box, of a perforated top permanently and irremovably seamed to the body and a rotary closing-plate fitting outside the perforated top and pivotally secured thereto and provided with a series of perforations adapted to register with those in the perforated top and furnished with coiled or folded integral finger-pieces for turning the rotary closing-plate, the coils of the finger-pieces being substantially cylindrical and projecting upwardly from the closing-plate at the periphery thereof, so that the closing-plate may fit closely and snugly against the perforated top plate of the can or box and so that the finger-pieces may be properly strengthened and stiffened and adapted to be readily engaged by the thumb or finger in turning the closing-plate.

My invention also consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described, and specified in the claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a top or plan view of a sifter-top can or box embodying my invention. Fig. 2 is a central vertical section. Fig. 3 is a similar view showing the can before it is filled and before the bottom head through which it is filled has been applied or seamed thereto. Fig. 4 is an enlarged detail view of the rotary closing-plate, and Fig. 5 is a section on line 5 5 of Fig. 4.

In the drawings, A represents the body of the can or box. B is the perforated top permanently and irremovably seamed to the body A by a folded or other seam b and having a raised annular portion b' and depressed center b^2 and provided with a series of perforations b^3, arranged in radial rows, and a pivot-hole b^4 at its center for rotatably securing the rotary closing-plate D thereto.

The rotary closing-plate D has a raised annular portion d and depressed center d'. It is pivotally connected to the perforated top B by a pivot d^2, which I prefer to make in a separate piece from both the perforated top and closing-plate instead of making it integral with one or the other of those parts. The rotary closing-plate D is furnished with a series of perforations d^3 therein arranged in radial rows and adapted to register with the perforations in the top B when the closing-plate is properly turned. The rotary closing-plate D is furnished with one or more, preferably four, integral folded or coiled finger-pieces or tongues d^4, which are preferably folded or coiled into substantially cylindrical form, as illustrated in the drawings, and which project upwardly from the closing-plate at the periphery thereof. By this folded or coiled construction of the integral hollow finger-pieces on the closing-plate they are made very stiff and strong and at the same time caused to project upwardly from the closing-plate, so that they can be conveniently and easily engaged by the finger or thumb in turning the closing-plate. The perforated top B may, if desired, be provided with one or more stops b^5, adapted to engage the ends of the cylindrical coils d^4 to register the closing-plate in its open or closed position.

C is the bottom head of the can or box, the same being permanently and securely seamed to the body A thereof after it has been filled. As both the bottom head C and the perforated top B are permanently and irremovably seamed to the top A, my powder-box cannot be again refilled with spurious goods after its contents have once been used.

I claim—

1. A non-refillable sheet-metal sifter-top

can or box comprising in combination a body A closed at its lower end, a perforated top B irremovably seamed to the body and furnished with a raised annular portion b' and depressed center b^2, and furnished with perforations b^3, a rotary closing-plate D pivotally secured to said perforated top and having a raised annular portion d, depressed center d', perforations d^3 and upwardly-projecting cylindrically-coiled integral finger-pieces d^4 at the periphery thereof, substantially as specified.

2. A non-refillable sheet-metal sifter-top can or box comprising in combination a body A closed at its lower end, a perforated top B irremovably seamed to the body and furnished with a raised annular portion b' and depressed center b^2, and furnished with perforations b^3, a rotary closing-plate D pivotally secured to said perforated top and having a raised annular portion d, depressed center d', perforations d^3 and upwardly-projecting cylindrically-coiled integral finger-pieces d^4 at the periphery thereof, said perforated top having stops outside the circular edge or rim of the rotary closing-plate to engage the ends of said coiled finger-pieces on the rotary closing-plate, substantially as specified.

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