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April 27, 1926.

1,582,631

A. E. BRUNS

BOX

Filed June 30, 1923

Fig. 1

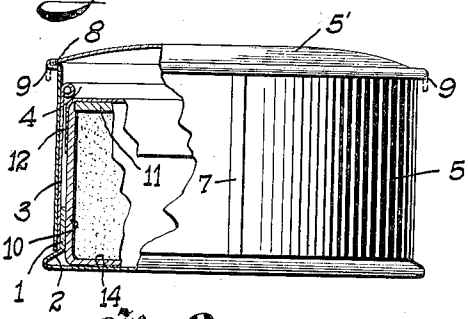


Fig. 2

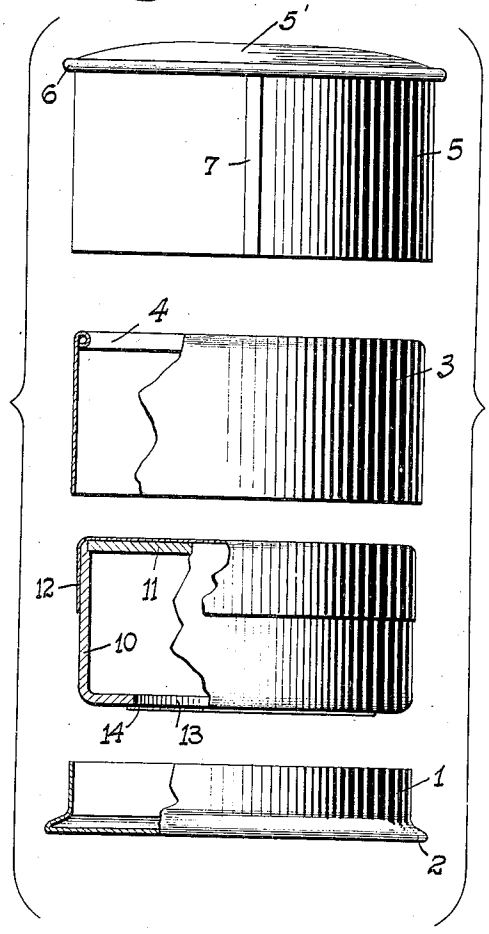


Fig. 3

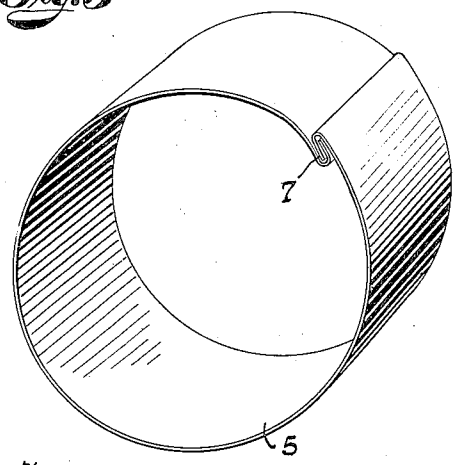


Fig. 4

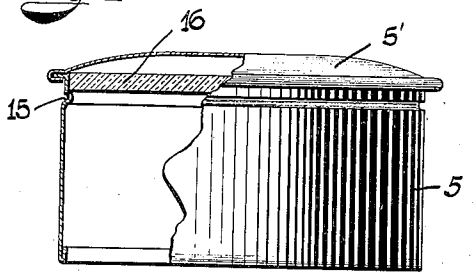
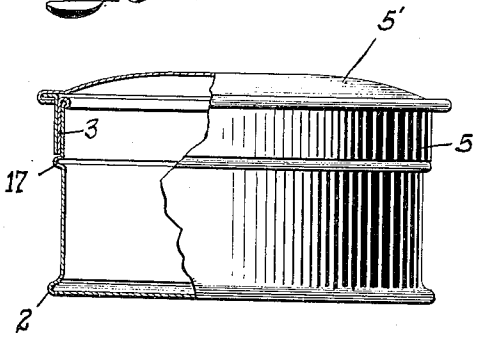


Fig. 5



Inventor

Alfred E. Bruns.

By his Attorneys

Townsend & Decker

Patented Apr. 27, 1926. 1,582,631

UNITED STATES PATENT OFFICE.

ALFRED E. BRUNS, OF HUNTINGTON, NEW YORK, ASSIGNOR TO METAL PACKAGE CORPORATION OF NEW YORK, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

BOX.

Application filed June 30, 1923. Serial No. 648,694.

To all whom it may concern:

Be it known that I, ALFRED E. BRUNS, a citizen of the United States, and a resident of Huntington, Long Island, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to boxes which are provided with a cover and which are adapted to receive and support securely therein a container holding any useful substance.

The invention is an improvement on that shown and described in my prior application for patent for boxes, filed April 12, 1922, Ser. No. 551,779, and it is particularly adapted, as is the invention of my prior application, for use in connection with a sheet metal powder box the inner container of which is preferably made of paper and which is adapted to hold face or talcum powder.

The principal object of the invention is the production of a box which shall be simple in construction and of ease to manufacture, the construction of which will permit it to be easily loaded with an inner paper powder-container or other suitable container without the use of an adhesive whereby said container will be as effectively held in position within the box as if an adhesive had been used.

A further object of the invention is the production of a box having the above characteristics which shall be neat and symmetrical in appearance.

To the above ends my invention consists in the novel box and the cover thereof, together with the method of manufacturing said cover, hereinafter more particularly described and then specified in the claims.

In the accompanying drawings illustrating a practical embodiment of the invention:

Fig. 1 is a front elevation (partly in section) of the box showing the various parts thereof in assembled position.

Fig. 2 is a front elevation (partly in section) of the several parts of the box showing them in disassembled position.

Fig. 3 is a perspective view of the body of the cover before the top wall thereof has been fastened thereto.

Fig. 4 is a front elevation (partly in section) of a modified form of cover.

Fig. 5 is a front elevation (partly in section) of a modified form of box, the same being shown without the inner container.

Referring in detail to the several figures of the drawing:

The box body or lower part of the box is indicated at 1, said body being provided at its lower edge with a bead 2. 3 indicates an annular collar or other intermediate member which is open at either end, the upper edge of said collar being bent or curled around on itself to form a bead 4 for a purpose to be hereinafter explained. The lower portion of the collar 3 is adapted to fit over the vertical annular wall of the body 1 whereby the lower edge of said collar will engage the bead 2, the parts being held together by a very tight frictional engagement. When so assembled it is very difficult to separate the parts from each other and for all practical purposes they in reality constitute one element only.

5 indicates the body of the cover, the top wall of which is indicated at 5′ and 6 indicates a bead forming a part of said cover which is somewhat similar in appearance to the bead 2 of the box body 1. Said cover 5 is adapted to be slipped over the collar 3 whereby the lower edge of said cover will engage the bead 2 of the body of the box, the cover being held to the collar 3 by frictional engagement therewith sufficient to prevent its falling from said collar, but insufficient to prevent its being easily removed therefrom. When the parts are thus assembled they assume the position shown in Fig. 1 and present a symmetrical looking box of pleasing appearance with a bead both at the top and bottom thereof which are similar in configuration.

To manufacture the cover, I prefer to take a strip of thin sheet metal shown in perspective in Fig. 3, said strip constituting the body of said cover. The ends of said strip are joined together by a seam 7 to form a hoop or annular member as shown. The upper edge of said annular member is then bent over at right angles thereto to form an annular flange 8 as is shown in Fig. 1. A

round piece of sheet metal is then provided and is pressed upwardly to form a slightly curved or bellied out wall, said piece of metal constituting the top wall 5′ of the cover. The edge of said top wall is then bent downwardly to form a flange as shown in dotted lines at 9 in Fig. 1, and the flange 9 is then clinched over the flange 8 forming the bead 6 and completing the cover. I find that in practice it is not practical to attempt to form the cover of one piece of material as the body portion thereof is of such great length that if it is attempted to draw the metal downwardly to form said body portion the lithographing thereon will be impaired. It is, therefore, necessary to construct the cover of two parts the method of construction thereof which has just been described being a simple and expeditious one.

10 indicates an annular, inner powder-holding container adapted to fit snugly within the box body 1, said container being preferably made of paper. The upper wall 11 of said container comprises a disk loosely engaging the upper edge of the annular side wall thereof, said disk being held in position by a paper seal 12 which is pasted thereover as well as over the annular side wall as shown in Fig. 2. The lower wall or base of the container is provided with an annular opening 13 through which the container is filled with face or other powder and said opening 13 is then sealed with a paper seal 14.

The box is shipped to the powder manufacturers thereof, in three parts, to wit: the body 1, the cover 5 and the collar 3. The powder manufacturers load the box with the powder containers 10 by slipping the container within the body 1 with which it snugly interfits, as previously described, and then by pressing the lower portion of the collar 3 over the body 1 until the lower edge of said collar engages the bead 2, the frictional engagement being such that the collar and body are practically locked together. When the parts are in this position the upper edge of the wall of the container 10 engages the bead 4 of the collar, which bead acts as a stop to prevent the container from being removed or from falling out of place. The cover is then applied in the manner previously described.

When it is desired to use the powder, the cover is removed and the paper seal 12 is broken to permit the removal of the disk 11 and to expose the powder, the container at all times being held against removal or displacement by the bead 4 as has been explained. Preferably the parts are so constructed that a space obtains intermediate the top wall 5′ of the cover and the container which is adapted to be received by a powder puff (not shown).

In the modification illustrated in Fig. 4, before the top wall 5′ and the body portion 5 of the cover are joined or clinched together, said body portion is provided with an inwardly pressed bead 15 on which a mirror 16 is placed, said bead acting as a seat therefor. The top wall 5′ is then connected to the body portion 5 of the cover, as has been explained, and the mirror 16 is held against movement or against removal by said bead 15 and by that portion of the top wall 5′ adjacent its edge.

In the modification illustrated in Fig. 5 the body portion 5 of the cover is much shorter in length than in the preferred form of the invention as is the length of the collar 3. Instead of engaging the bead 2 and the box body as in the preferred form, the lower edges of the cover and of the collar engage a bead 17 formed in the wall of the box body as illustrated.

What I claim as my invention is:

1. In a box, a body, a container fitting snugly therein, a collar fitting over a wall of said body and held thereto by tight frictional engagement, means on said collar for preventing removal of said container and a cover engaging said body and hiding said collar and container from view.

2. In a box, a body provided with a bead thereon, a powder-holding container fitting within said body, a collar engaging said bead and held to said body by tight frictional engagement, means on said collar for preventing removal of said container and a cover engaging said body and having the lower edge thereof engaging said bead.

3. In a box, a body having a bead at the lower edge thereof, a container within said body, a collar held to said body by tight frictional engagement, means on said collar for preventing removal of said container and a cover frictionally engaging said body and hiding said collar and container from view, said cover being provided with a bead adjacent the upper edge thereof.

4. In a box, a body provided with a bead thereon, a powder-holding container fitting snugly within said body, a collar fitting around said body and engaging said bead, said collar being held to said body by tight frictional engagement, means on said collar for preventing removal of said container and a cover engaging said bead and hiding said container and collar from view.

5. In a box, a body having a bead thereon, a powder-holding container fitting snugly within said body, a collar held to said body by tight frictional engagement and having the lower edge thereof engaging said bead and the upper edge thereof curled over to form a bead adapted to prevent removal of said container and a removable cover having the lower edge thereof engaging said bead and the upper edge thereof provided

with a bead simulating in appearance said first-named bead.

6. In a box, a cover comprising a body part and a top portion, said body part having formed therein an inwardly extending bead and an outwardly extending flange, said top portion being secured to said outwardly extending flange, and a mirror in said cover projecting outwardly over said bead and mounted between said bead and top portion so as to be held in place by engagement with said inwardly extending bead and said top portion.

Signed at New York in the county of New York and State of New York, this 29th day of June, A. D. 1923.

ALFRED E. BRUNS.