A. R. MANN.

METAL BOX.

APPLICATION FILED FEB. 28, 1921.

1,417,932.

Patented May 30, 1922.

Fig. 1.

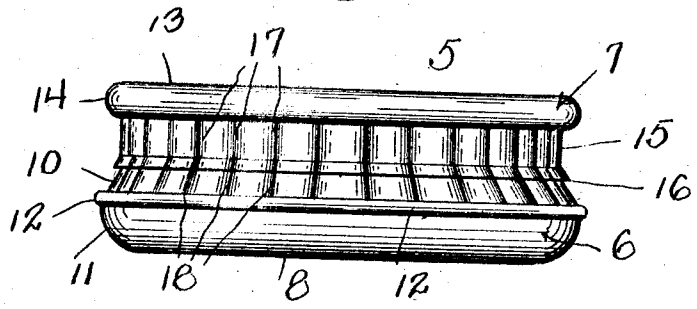


Fig. 2.

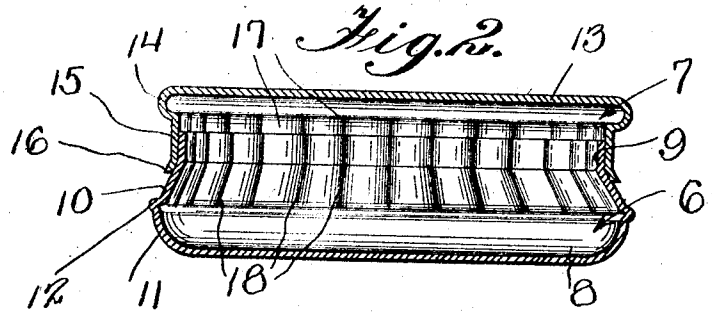
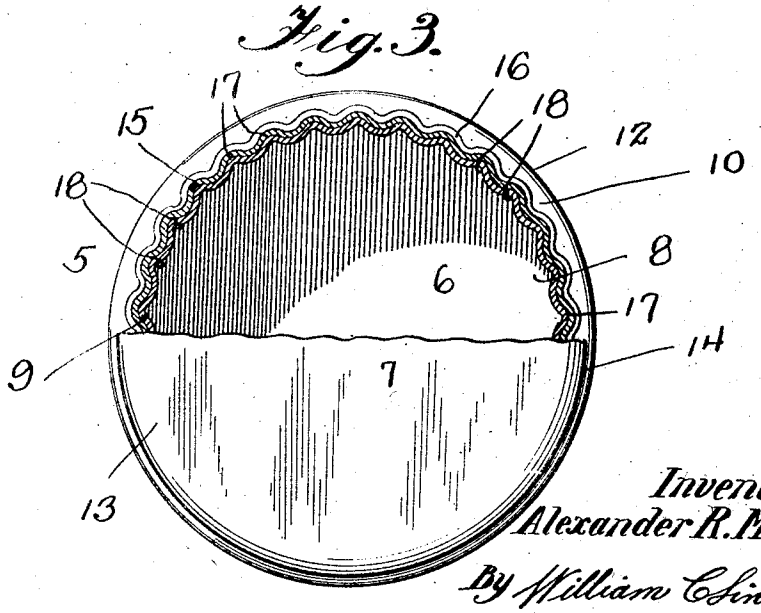


Fig. 3.



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UNITED STATES PATENT OFFICE.

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METAL BOX.

1,417,932. Specification of Letters Patent. Patented May 30, 1922.

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To all whom it may concern:

Be it known that I, ALEXANDER R. MANN, a subject of the King of Great Britain, residing at Montreal, Province of Quebec, Canada, have invented certain new and useful Improvements in Metal Boxes; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to new and useful improvements in metal boxes or containers.

The primary object of the invention is the provision of a box so constructed that the cover thereof can be readily removed when desired.

Another object of the invention is the provision of a box including a body portion and a removable cover, the adjacent portions of which are corrugated so that the cover can be readily applied and sealed against the entrance of air thereto.

Still another object of the invention is the provision of a box including a cover, the latter of which is flared slightly to permit of its ready insertion over the side walls of the body portion of the said box.

A further object of the invention is the provision of a box such as above described, including a body portion having a side wall the lower portion of which is bevelled and which is adapted to receive the side wall of the cover which, when forced over the said bevelled portion will release the cover from the side wall of the body portion, thus permitting its ready removal.

A still further object of the invention is the provision of a box such as above referred to, which will be comparatively simple and efficient to manufacture, reliable and efficient in use, and readily operated.

With the above and other objects in view, the present invention resides in the novel features of construction, formations, combinations, and arrangements of parts to be hereinafter more fully described, claimed, and illustrated in the accompanying drawing, forming a part of the present application, and in which:

Figure 1 is a side elevation of a box constructed in accordance with the present invention;

Figure 2 is a transverse sectional view taken therethrough; and,

Figure 3 is a plan view showing the box partly in section.

Referring now to the accompanying drawing by corresponding characters of reference throughout the several views, the numeral 5 designates in general a box constructed in accordance with the present invention which consists of a body portion 6 and removable cover 7.

The body portion 6 includes a bottom 8 and side wall 9, the lower portion of the latter of which is bevelled outwardly as indicated at 10 and joined to the upwardly curved edge 11 of the bottom 8 by a bead 12.

The cover 7 consists of a top 13, the outer edge of which is curved as shown at 14 and is provided with a depending flange or side wall 15, the lower edge of which is flared slightly as shown at 16 to permit of its ready insertion over the upper edge of the side wall 9.

The side walls of the body portion and cover are each provided with corrugations 17 and 18 which fit within each other to permit of a proper sliding relation between the body portion and its cover and likewise to seal the box against the admission of air therebetween.

In use the cover is applied to the body portion as shown in Figure 2 with the flared edge 16 of the side wall 15 resting upon the bevelled portion 10 of the side wall 9 and the corrugations 17 and 18 fitting within each other.

When it is desired to move the said cover, the top 13 is struck a sharp blow which causes the flared end 16 to ride down upon the bevelled portion 10 of the side wall 9, thus disengaging the flange 15 from said side wall 9 and permitting the ready removal of the cover.

The engagement of the corrugations in the flared portions 16 of the cover with the corrugations of the bevelled portion 10 of the side wall 9 causes the efficient sealing of the box against the admission of air which might cause injury to the contents thereof, while the curved portion 14 of the cover 7 which retracts the flange 15 inwardly allows of the necessary expansion of said flange in applying and manipulating the cover to promote the efficient operation

necessary to equally remove or replace the said cover without in any way injuring the same.

From the foregoing description, taken in connection with the accompanying drawing, it will be manifest that a box particularly applicable for containing shoe polish or the like is provided, which will fulfil all of the necessary requirements of such a device, and it should be understood in this connection, that various minor changes in the specific details of construction can be resorted to within the scope of the appended claim, without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described the invention, what I claim as new and desire to protect by Letters Patent is:—

A box of the character described comprising a body portion and a cover therefor, said body portion including a bottom and circular side wall, the latter being tapered from the juncture of the bottom inwardly, a bead extending around the edge of said bottom at its juncture with the tapered side wall, the cover of said tapered side wall having a circular upper edge, said cover comprising a top having a rounded edge, a circular side wall extending from the rounded edge of said cover and being of a dimension smaller than that of the greatest dimension of said cover, the circular side wall of the cover fitted over the circular portion of the side wall of the body portion, the lower edge of said circular side wall of the cover being flared to engage the tapered portion of the side wall of the body, and the said side walls of the body portion and the cover each having interfitting spaced parallel corrugations extending vertically therein, said corrugations being spaced relatively close to each other, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my hand.

ALEXANDER R. MANN.