

Nov. 13, 1923.

1,474,088

R. S. REYNOLDS
COLLAPSIBLE METAL BOX
Filed July 26, 1920

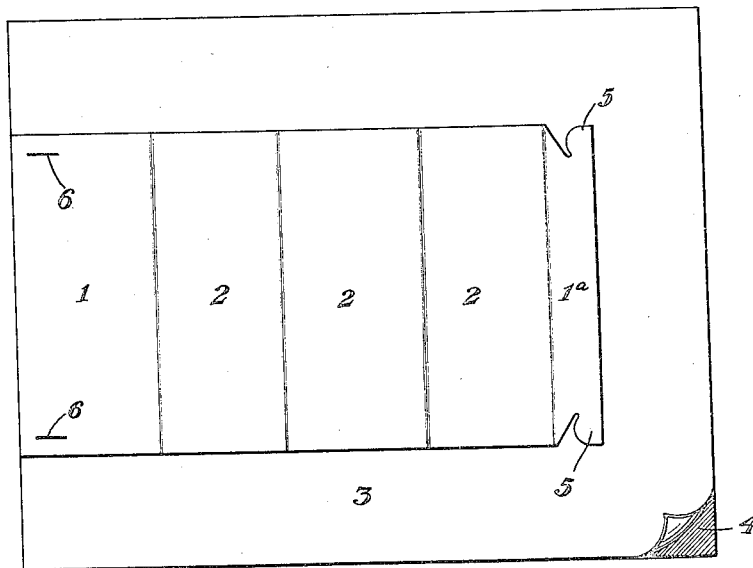


Fig. 1.

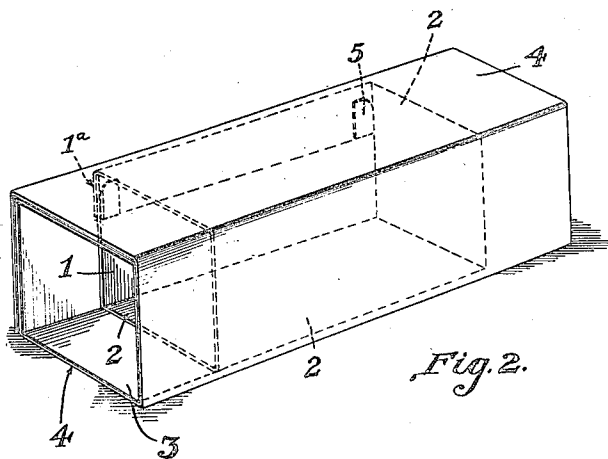
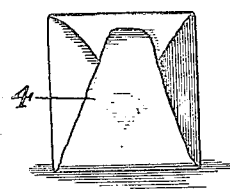


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

RICHARD S. REYNOLDS, OF LOUISVILLE, KENTUCKY.

COLLAPSIBLE METAL BOX.

Application filed July 26, 1920. Serial No. 398,865.

To all whom it may concern:

Be it known that I, RICHARD S. REYNOLDS, citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Collapsible Metal Boxes; and I do hereby declare the following to be 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.

This invention relates to new and useful improvements in receptacles and particularly to a receptacle of the folding type which is constructed in such a manner as to provide a practically air tight package when the same is arranged in its folded position.

Another object of the present invention is the provision of a folding package comprising an outer layer of foil and an inner cardboard blank adapted to be folded into a boxlike receptacle, the edges of the foil projecting beyond the edges of the receptacle and adapted to be folded inwardly, whereby the contents of the package will be securely wrapped.

A further object of the present invention is the provision of a wrapper comprising a central core portion of fairly heavy paper and provided with an outside foil wrapper larger than the central core portion, whereby when the wrapper is folded around the goods into a box form, it will provide an air-tight closure by having the side portions of the foil wrapper folded over the end of the box wrapper, and as this outside wrapper is of foil it will securely retain itself in position after being folded to provide for suitable closure for the ends of the inside folded parts.

With the above and others objects in view, the invention consists in the novel features and construction, the combination and arrangement of parts hereinafter more fully set forth, pointed out in the claim and shown in the accompanying drawings, in which—

Figure 1 is a plan view of a blank, illustrating a receptacle constructed in accordance with my invention;

Fig. 2 is a perspective view illustrating the same in partially folded condition.

Figure 3 is an end elevation showing how the side portions of the outside wrapper fold in to close the end.

In carrying out my invention, I provide first a central wrapper portion which is formed of comparatively heavy wrapping paper and creased to provide five foldable sections. These foldable sections are generally indicated in the accompanying drawings by the numerals 1 and 2. Arranged upon one face of these foldable cardboard sections is a sheet of waxed paper, indicated by the numeral 3. As illustrated in the drawings, this sheet 3 extends at its longitudinal edges beyond the edges of the foldable sheet and has one of its transverse edges extending beyond the end of the foldable center sheet so that when the package is folded these extended portions can be folded inwardly to provide for the sealing of the package and entirely closing the end portions thereof.

In order to provide a suitable outside wrapper for the package, I have attached to the waxed sheet 3, a sheet of foil 4, which is adapted to enclose the entire receptacle when the same is in its folded position as shown in Figure 3. In securing the inside receptacle to the waxed sheet 3, the sections 2 are attached to the sheet 3 while the sections 1 and 1^a at each end of the foldable center sheet are free from the waxed sheet so that when the device is folded the section 1^a can be readily attached or connected to the section 1 by retaining the receptacle in its folded position.

It will be noted that the section 1^a is cut away in its end portions to provide the tabs 5 which are to be inserted within the slots 6 formed in the end portion to thus retain the receptacle in its folded position. The sections 1 and 1^a will have to be entirely free from the waxed sheet 3 so that when the central foldable member is folded up as shown in Figure 2, the tabs 5 can be readily inserted through the slot 6 from the outside of the section 1 as clearly illustrated in Figure 2.

When it is desired to wrap an article with this improved wrapper, the article is placed on the first of the number 2 sections, adjacent the section 1 and the remaining number 2 sections are folded over onto the

article, while section 1 is folded inwardly to-
 ward the article and engaged by the sec-
 tion 1^a to retain the wrapper in its folded
 position above the article. As one end of
 5 the outside wrapper projects beyond the
 end of the inside foldable wrapper, this
 projection will extend beyond the meeting
 edges of the inside wrapper so as to entirely
 overlap the meeting edges of this inside
 10 wrapper and to provide a comparatively
 air-tight connection at this point. As the
 side portions of the sheets 3 and 4 project
 beyond the side portions of the inner fold-
 able wrapper, these projected side portions
 15 will constitute the ends of the package when
 it is folded into the position illustrated in
 Figure 2. These extended end portions can
 then be folded inwardly as illustrated in
 Figure 3 to provide a substantially air-
 20 tight end for the wrapped package. From
 this it will be apparent that the wrapper
 can be readily applied to the article which
 is to be enclosed therein, and after the same
 has been securely wrapped it will provide
 25 a substantially air-tight closure in view of
 the fact that the outside wrapper is made
 of tinfoil or similar material so that when
 the end portions are folded inwardly to the
 position illustrated in Figure 3 they will be

retained in position by the weight of the 30
 foil. If desired, the end portions can be
 slightly indented to assure the proper seal-
 ing of the package.

What I claim is:

A receptacle of the class described con- 35
 sisting of a wrapper portion formed of com-
 paratively heavy wrapping paper and
 creased to provide a plurality of foldable
 sections adapted to be folded to form a sub-
 stantially rectangular body, tabs formed on 40
 one end of said paper, said paper being pro-
 vided with tab receiving slots at its opposite
 end, a sheet of waxed paper secured to one
 face of the wrapping paper and having its
 longitudinal edges extending beyond the 45
 edges of the wrapping paper and also hav-
 ing one of its transverse edges projecting
 beyond the end of the foldable wrapping
 paper, a sheet of foil secured to the waxed
 sheet and adapted to entirely cover the same 50
 and the longitudinal edges of said waxed
 and foil sheets being adapted to be folded
 inwardly upon the ends of the body when
 the body is in a folded position to entirely
 close the ends thereof. 55

In testimony whereof I affix my signature.

RICHARD S. REYNOLDS.