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1,664,181

D. OWEN

TIN AND LIKE CONTAINER

Filed Sept. 13, 1926

Fig. 1.

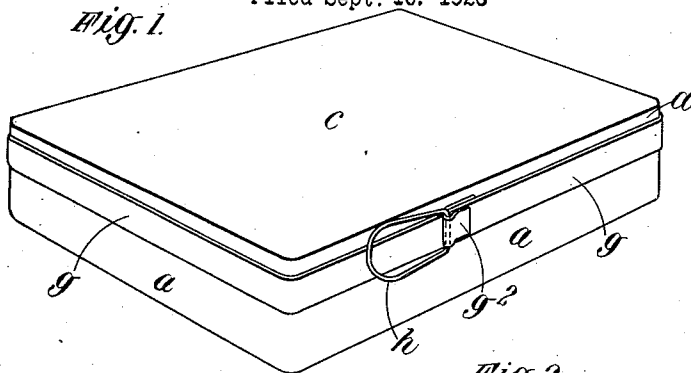


Fig. 2.

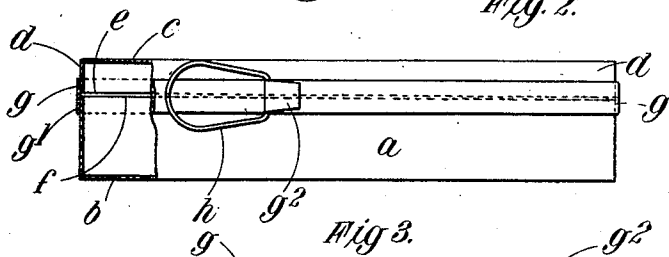


Fig. 3.

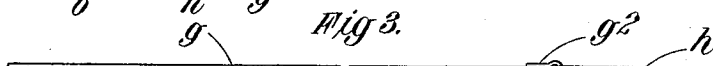


Fig. 4.



Fig. 5.

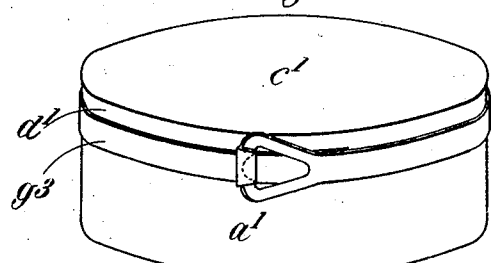
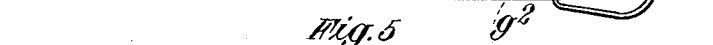


Fig. 6.

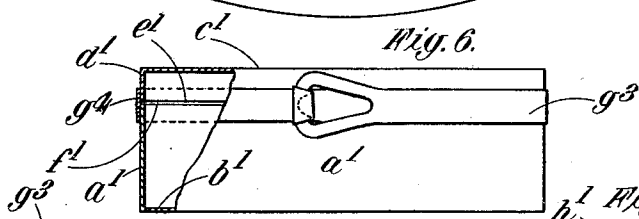


Fig. 7.

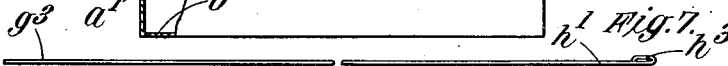
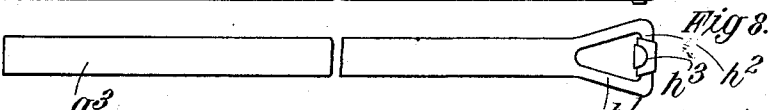


Fig. 8.



Inventor
Dudley Owen
By Fennis, Davis, Mann, & Co.
Attorneys

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UNITED STATES PATENT OFFICE.

DUDLEY OWEN, OF WEST SMITHFIELD, LONDON, ENGLAND, ASSIGNOR OF ONE-HALF
TO ANDREW McCORMICK MACTAGGART, OF LONDON, ENGLAND.

TIN AND LIKE CONTAINER.

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This invention has reference to tins and like containers of the kind provided with a closure means in the form of a strip of metal which is secured to the body of the tin or like container and the cover thereof and is adapted to be torn or stripped off through the medium of a grip attachment in the form of a loop or ring provided in connection therewith when it is desired to open the tin or like container.

According to this invention, the tin or like container comprises a body portion having a bottom plate permanently secured thereto and a cover formed with a depending flange which is of approximately the same perimeter as that of the said body and is fitted with a tear-off strip provided with a ring or loop, the tear-off strip being secured to the flange in such a manner that it depends below the edge of the same and is adapted to be secured to the said body with the edge of the flange resting on or adjacent the upper edge of the body. The tin or like container may be of circular, rectangular or other shape in cross section serviceable for canning various forms of food and perishable goods, and when closed by the cover and tear-off strip, is capable of hermetically enclosing the same. In thus constructing the cover relatively to the body of the tin or like container, less metal is required in its manufacture than with a tin or container of equal cubic capacity provided with a cover having a flange which encloses or encircles the upper marginal portion of the body, and the soldering of the tear-off strip is facilitated as the two surfaces of the flange and body are flush with each other, and there is no necessity to provide ribs or raised surfaces in the body to this end. Further the goods enclosed in the tin or like container are adapted to be delivered therefrom as a moulded article or body after the removal of the tear-off strip and cover, no special tool or key being required for removing the strip as the loop or ring thereon serves as a finger grip to this end, and no heating of the goods or loosening thereof being necessary. In place of the known form of tear-off strip with the ring or loop hinged thereto, the strip may be formed with an integral loop or ring cut or pressed from an enlarged end portion thereof. The loop or ring thus provided may be of triangular, pear or other convenient shape and the metal cut or

pressed from the enlarged end for forming the loop or ring may be left integral with the free end or base of the triangular portion and folded back or round such end or base to provide a finger gripping part. The enlarged portion may have one edge in line with that of the tear-off strip to enable the strip to be arranged at or near the end of the tin or like container.

In order that the said invention may be clearly understood and readily carried into effect, the same will now be fully described by way of example, with reference to the accompanying drawings, in which:—

Figure 1 is a perspective view of one form of container provided with a tear-off strip having a ring or loop hinged thereto.

Figure 2 is a side elevation partly in section of the container shewn in Figure 1.

Figures 3 and 4 are respectively edge and side views of the tear-off strip shewn in Figures 1 and 2.

Figures 5 and 6 are respectively similar views to Figures 1 and 2 illustrating a different form of container with a modified form of tear-off strip.

Figures 7 and 8 are similar views to Figures 3 and 4 of the modified form of tear-off strip shewn in Figures 5 and 6.

Referring to the construction shewn in Figures 1, 2, 3 and 4, the container comprises a body portion *a* with a bottom *b* permanently attached to the lower margin thereof, and a cover *c* having a depending flange *d* secured thereto. The flange *d* is of the same perimeter as that of the body portion of the container and is capable of being arranged with the lower edge *e* of the flange *d* immediately above the upper edge *f* of the body portion *a*. Around the flange *d* is soldered the tear-off strip *g* in such a manner that it depends below and forms a skirt *g'* to the lower edge *e* thereof. Such skirt *g'* is adapted to surround and enclose the upper margin of the body portion *a* when the latter is fitted with the cover *c* and to be soldered to the said upper margin for hermetically enclosing any goods in the container. The tear-off strip *g* shewn in Figures 3 and 4 comprises a strip of metal provided at one end with a returned portion *g²* for securing to the strip the ring or loop *h* in such a manner as to permit the latter to be moved relatively thereto.

The construction shewn in Figures 5, 6, 110

7 and 8 comprises a circular container comprising a circular body portion a' with a permanently fixed bottom plate b' and a cover c' with an integral depending annular flange d' which is of the same size in circumference as that of the body portion a' and is capable of being set over the latter so that the lower edge e' of the flange rests on the upper edge f' of the body portion. To the lower margin of the flange d' is soldered the tear-off strip g^3 in such a manner that a portion g^4 depends below the edge e' and forms a skirt to the flange d' . Such skirt portion g^4 is soldered to the body portion a' and forms a hermetic seal to the joint between the body portion a' and cover c' . In thus securing the two parts together there is no need to provide ribs on the flange of the cover or on the body portion while the tear-off strip g^3 can be made and used as a flat strip of metal and is thereby adapted to facilitate the soldering thereof to both the flange of the cover and to the body portion. The tear-off strip g^3 in the construction shewn in Figures 5, 6, 7 and 8 consists of a strip of metal with which is integrally formed the loop or ring h' , the latter being constituted by an enlarged portion forming a continuation of the strip. The loop or ring h' is formed by cutting or pressing therefrom an integral portion, and this is folded around the terminal end h^2 of the strip and loop as indicated at h^3 to form a thickened part, capable of being engaged by the fingers for enabling the strip g^3 to be removed thereby from the container without injury or hurt to the person making use thereof. It will be under-

stood that the internal portion pressed from the enlarged portion of the strip is not severed from the terminal end h^2 but is integral therewith and folded around the same.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A container comprising a body portion with a fixed bottom, a cover with an endless flange of approximately the same perimeter as that of the body portion, and a flat tear-off strip soldered to the flange and depending below the same, the strip having an enlarged integral end portion which forms a part of and is a continuation of the strip and has a part cut therefrom to form a loop capable of being gripped by the fingers for removing the strip, the strip and loop being made of one piece of metal.

2. A container comprising a body portion, a cover with a flange of approximately the same perimeter as the body portion and capable of being disposed on the upper edge of the body portion with the walls of the body portion flush with the flange, and a tear-off strip soldered to the flange and depending below the lower edge, the depending portion being adapted to be soldered to the body portion and the tear-off strip having an enlarged integral end portion which forms a part of and is a continuation of the strip and has a part cut therefrom and folded round the end of the strip to form a loop and a finger grip, the whole of the strip, loop and folded portion being made of one piece of metal.

DUDLEY OWEN.