

No. 655,448.

Patented Aug. 7, 1900.

A. W. MACONOCHE.

TIN FOR INCLOSING PRESERVED PROVISIONS OR FOODS, &c.

(Application filed Aug. 5, 1899.)

(No Model.)

Fig. 2.

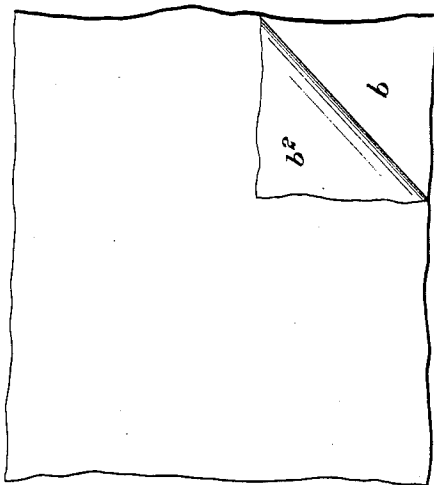


Fig. 3.



Fig. 1.

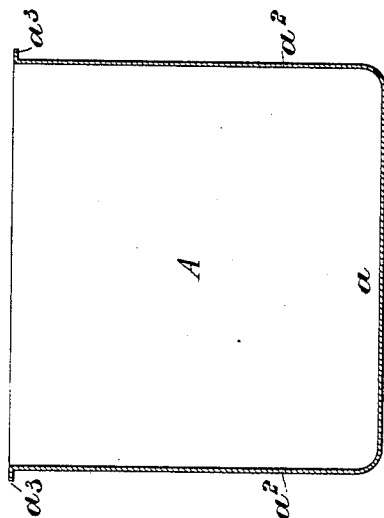


Fig. 4.

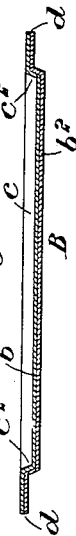


Fig. 5.

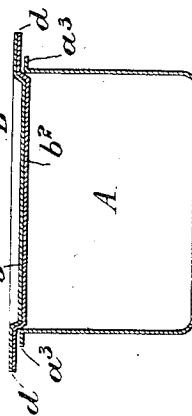


Fig. 6.

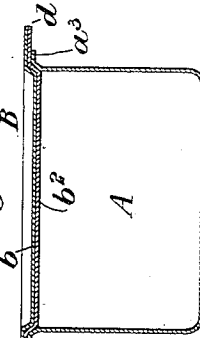
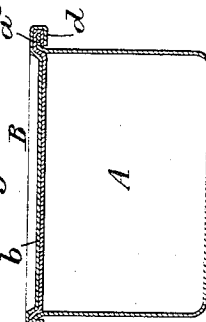


Fig. 7.



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UNITED STATES PATENT OFFICE.

ARCHIBALD W. MACONOCHE, OF LONDON, ENGLAND, ASSIGNOR TO
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TIN FOR INCLOSING PRESERVED PROVISIONS OR FOODS, &c.

SPECIFICATION forming part of Letters Patent No. 655,448, dated August 7, 1900.

Application filed August 5, 1899, Serial No. 726,244. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD WHITE MACONOCHE, merchant, a subject of the Queen of Great Britain and Ireland, and a resident of 131 Leadenhall street, in the city of London, England, have invented certain new and useful improvements in or connected with Tins for Inclosing Preserved Provisions or Foods and the Like, which invention is fully set forth in the following specification.

My invention has for its object to provide a new, expeditious, and economical way of manufacturing and closing tins for preserved provisions or goods and the like without the use of solder to close the joints and which is absolutely tightly closed. I make and close the tin according to my invention as follows, reference being had to the accompanying drawings, whereon—

Figure 1 is a vertical section of the body of the tin. Fig. 2 is a plan, and Fig. 3 a cross-section, showing a plate of tin covered with paper for making the lid or cover. Fig. 4 is a section of the lid or cover stamped to shape.

Fig. 5 shows in section the lid or cover in position ready to be pressed into place. Fig. 6 shows in section the lid or cover forced into place, and Fig. 7 shows the tin completely closed by folding one flange under the other.

The body part A, Fig. 1, I form from one piece of tin-plate, which I stamp out so as to form the bottom a and sides a^2 of the tin, with a flange a^3 projecting outward around its upper edge. To make the lid or cover B, Fig. 4,

I take the plate b and I apply to it by means of gelatin or other suitable cementing material a sheet or sheets of paper b^2 , as shown in Figs. 2 and 3. I then subject the combined tin-plate and paper to the action of dies, so as to stamp therefrom the lid or cover B, as shown in Fig. 4.

The said lid or cover has a depressed mid-portion c , the periphery c^2 of which is inclined, so that its lower part will enter the opening at the top of the body part A of the tin, its upper part being slightly greater in diameter than the said opening. Projecting around from the upper part of the said inclined periphery is a flange d of a diameter exceeding that of the flange a^3 on the body part A. The lid or cover is stamped so that

the paper b^2 is situated at the under side thereof. When the food has been introduced into the tin A, the lid or cover B is put in place, as shown in Fig. 5, and is forced downward, so that the inclined periphery c^2 is forced into the mouth of the tin, as shown in Fig. 6, and owing to its inclination and its slightly-larger diameter at its upper part it forms a very tight closure. At the same time the flange d on the lid or cover is pressed and turned under the flange a^3 of the body part A, or the flanges d and a^3 are rolled together, the paper b^2 being confined thereby between the body part and lid or cover and making a perfect joint between them.

The method described of making the cover or lid is a novel and very expeditious and economical way of introducing a pliable material to make a good joint between the lid or cover and the body part, and as each part (the body part and the lid or cover) is made in one piece and the only joint is doubly closed, as described, a very secure tin completely protecting the contents is obtained.

Having now described the nature of my invention and the manner in which it may be performed, I declare that what I claim is—

1. The combination with a receptacle having a flange projecting outwardly therefrom around its upper edge or mouth, of a cover made of a metallic plate having a sheet of paper cemented to its under side and consisting of an outer flange which extends beyond the outer edge of, and is adapted to be bent around and under, the flange on the receptacle, and a depressed mid-portion of frusto-conical shape, its greatest diameter at the point where it joins the flange being slightly larger than the interior diameter of the mouth or opening of the receptacle, while its smallest diameter at its lower extremity is less than said diameter of the mouth of the vessel so that it may enter the same, whereby, upon application of pressure to the cover in the act of closing the receptacle, the inclined peripheral wall of the depressed mid-portion of the closure wedges into the mouth of the receptacle causing the same to expand and conform to the inclination of said wall, and constituting, with the joint formed by bend-

ing the flange on the cover about and under that on the receptacle, a tight and secure closure for the receptacle.

2. The combination with a receptacle having a flange projecting outwardly therefrom around its upper edge or mouth, said receptacle and flange being formed integrally from a single piece of sheet metal, of a cover made in one piece from a sheet-metal plate having a sheet of paper cemented to its under side and consisting of an outer flange which extends beyond the outer edge of, and is adapted to be bent around and under, the flange on the receptacle, and a depressed mid-portion of frusto-conical shape, its greatest diameter at the point where it joins the flange being slightly larger than the interior diameter of the mouth or opening of the receptacle, while its smallest diameter at its lower extremity

is less than said diameter of the mouth of the vessel so that it may enter the same, whereby, upon application of pressure to the cover in the act of closing the receptacle, the inclined peripheral wall of the depressed mid-portion of the closure wedges into the mouth of the receptacle causing the same to expand and conform to the inclination of said wall, and constituting, with the joint formed by bending the flange on the cover about and under that on the receptacle, a tight and secure closure for the receptacle.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

A. W. MACONOCHIE.

Witnesses:

WILLIAM JOHN CULLUM,
HERBERT D. JAMESON.