J. W. MASURY.

Can.

No. 207,191. Patented Aug. 20, 1878.

Fig. 1.

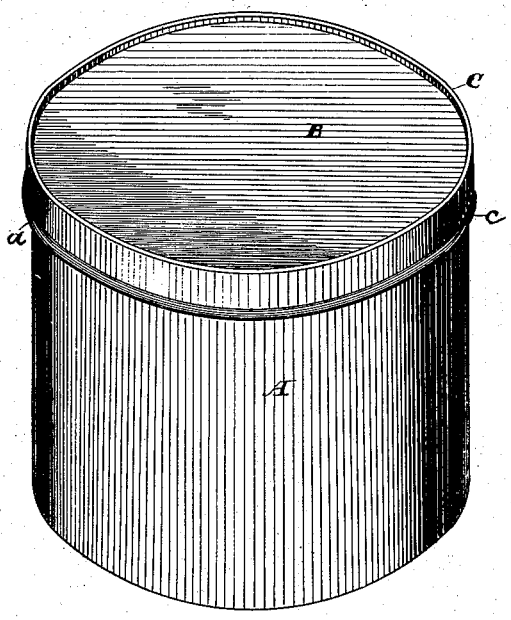


Fig. 2.

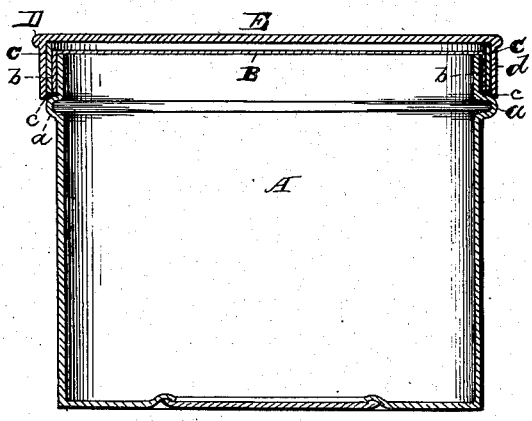
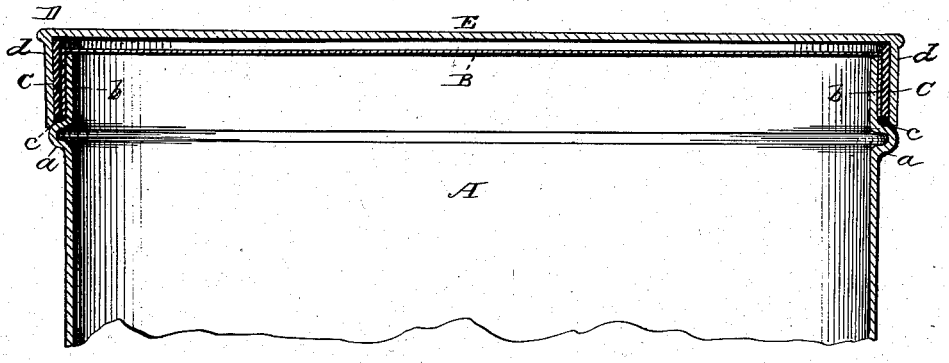


Fig. 3.



WITNESSES

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JOHN W. MASURY, OF NEW YORK, N. Y.

IMPROVEMENT IN CANS.

Specification forming part of Letters Patent No. **207,191**, dated August 20, 1878; application filed July 3, 1878.

To all whom it may concern:

Be it known that I, JOHN W. MASURY, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Cans or Packages; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cans or packages for paints and other material.

The object of my invention is to provide a can or package for paints or other substances of such construction that it may be rendered perfectly air-tight, to preserve the contents thereof from deterioration or waste, by means of a thin soft-metal top—such as tin or lead foil—which may be readily ruptured or severed by the thumb-nail or other light pressure.

Another object is to afford complete protection to the thin imperforate soft-metal top, and also impart additional strength to the open or sealed end of the can, whereby the latter will be enabled to sustain any required weight or percussive force exerted against either its sides or ends while *in transitu*.

Another object of my invention is to provide simple means for securing a thin soft-metal top to a can in an air-tight manner, and obviate the necessity for any peculiar construction or formation of the body of the can, and thus insuring an article simple in its construction and of small initial cost; and to these ends my invention consists, first, in a can or package for paints or other substances, a thin soft-metal top, secured to the open end of the can by means of a metallic ring, which embraces the outer edge of the soft-metal top, and is soldered to the outer surface of the can or package.

My invention further consists in a can or package having a bead formed on the body of the can, near one end thereof, and a soft-metal top secured to one end of the can by a metallic ring or hoop, one edge of which rests against the bead and is soldered to the outer surface of the body of the can.

My invention further consists, in a can or package, of a thin soft-metal top, secured to one end of the can by a metallic ring or hoop, soldered to the outer surface or body of the can, of a slip-cover, the flange of which surrounds the metallic ring or hoop, and its top serves to protect the soft-metal top and impart additional strength to the can.

My invention further consists, in a can or package for paints or other substances, of the combination, with the body of the can, provided with a bead near the open end thereof, and a soft-metal top attached to one end of the can and secured in an air-tight manner by a ring, which seats against said bead and is soldered to the bead or outer surface of the can, of a slip-cover, the flange of which extends over and protects the soldered joint between the ring and surface of the can.

My invention further consists in certain details of construction, as will more fully appear from the specification and claims.

In the accompanying drawings, Figure 1 is a view, in perspective, of my improved can or package, having the slip-cover removed therefrom; and Fig. 2 is a vertical section of the can and cover. Fig. 3 is an enlarged vertical section of the upper portion of the can.

A represents a can of any desired size or shape, which is preferably provided with a bead, *a*, formed near one end thereof. B is a soft-metal top, and is composed of tin or lead foil, or equivalent material, the edge *b* of which extends down to the bead *a* on the can. C represents a metallic ring or hoop, which is placed over the outer edge of the soft-metal top and forced down against the bead *a*, thus serving to hold the top B securely in place. Ring or hoop C is then rigidly secured to the outer surface of the can by soldering its lower edge thereto, as shown at *c*.

It will thus be observed that after the contents of the jar have been placed in the can the imperforate soft-metal top B, secured to the can by an air-tight joint, *c*, will prevent the ingress of air to the interior of the can or package, and hence the contained substances are prevented from either deterioration or waste.

The ring or hoop C extends slightly above the upper edge of the body of the can, for a purpose hereinafter set forth.

D represents a slip-cover, composed of sheet

metal of any desired thickness, the flange *d* of which extends over or embraces the metallic ring C, and covers the soldered joint *c*.

As heretofore stated, the upper edge of the fastening-ring C extends slightly above the upper edge of the body of the can, in order to prevent the top E of the slip-cover from being forced against the thin soft-metal top at that point where it extends over the upper edge of the can, and cutting or severing the soft-metal top.

From the foregoing it will be observed that an ordinary form of can may be employed to embody my improvements, and that the contents of the can may be readily sealed in an air-tight manner by the use of a very thin soft-metal top, which is adapted to be severed without the aid of a knife or any special tool.

As lead or tin-foil melts at a lower degree of heat than bar-solder, it is impossible to solder the edge of a top composed of such material directly to the surface of the can and form an air-tight joint; but by employing a metallic ring or hoop, which embraces and secures the edge of the soft-metal top, and soldering the edge of the ring to the can, a perfect air-tight joint is formed without melting and destroying the soft-metal top.

When the contents of the can or package have been sealed in the manner described, and the slip-cover forced down snugly over the end of the can, the soft-metal top is completely protected, and cannot be ruptured or severed by any ordinary rough usage experienced while the can is being handled or transported. The slip-cover also imparts additional strength to the can, and enables the latter to withstand great lateral pressure, thus preventing the can from being forced out of its original shape, which would have the effect of severing the soft-metal top.

By removing the slip-cover the thin soft-metal top may be readily severed by the thumb-nail or torn open like an envelope, thus rendering it a slight and easy task to remove the contents of one of my improved packages.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A can or package for paints or other substances provided with a thin soft-metal top, which is attached to one end of the can or package by means of a separate hoop or ring, which embraces the edge of the soft-metal top, and is soldered to the outer surface of the can or package, substantially as set forth.

2. A can or package having a bead formed near one of its ends, in combination with a soft-metal top and a separate ring or hoop, which embraces the edge of the soft-metal top and rests against the bead on the can, and is soldered to the outer surface of the can or package, substantially as set forth.

3. A can or package for paints or other substances having a soft-metal top secured to one of its ends by a separate metallic ring or hoop, which is soldered to the outer surface of the can, in combination with a slip-cover, the flange of which extends over the fastening ring or hoop, and serves to protect the soft-metal top and impart additional strength to the can, substantially as set forth.

4. A can or package provided with a bead near its open end, and a soft-metal top secured to said end by a separate ring or hoop, which is soldered to the outer surface of the can of a slip-cover, the flange of which extends downward over the soldered joint between the fastening-ring and can, substantially as set forth.

5. A can or package having a soft-metal top secured to one of its ends by a separate ring or hoop soldered to the can, and which extends slightly above or beyond the edge of the can, in combination with a slip-cover, which serves to protect the soft-metal top, and is prevented from severing or rupturing the same by the projecting edge of the fastening-ring, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

JOHN W. MASURY.

Witnesses:

FRANCIS B. CARLETON,

FRANK E. CANE.