

H. MILLER.

Cans for Paints, Liquids, &c.

No. 136,085.

Patented Feb. 18, 1873.

Fig: 1

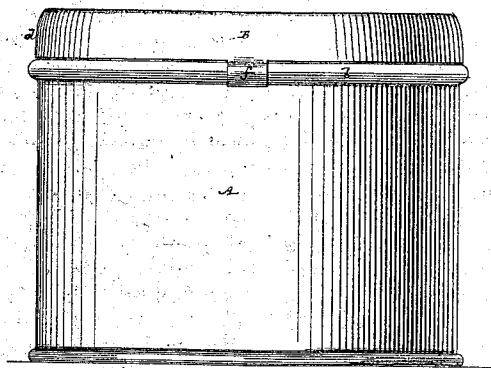


Fig: 2

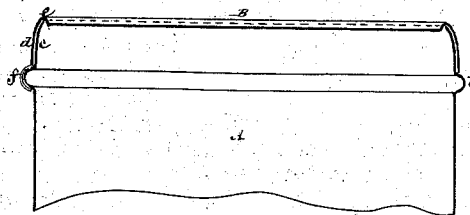
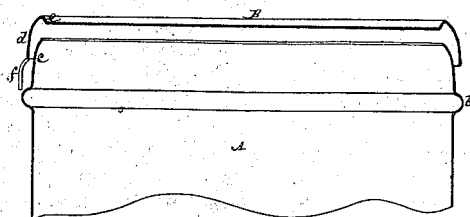


Fig: 3



Witnesses:
J. H. Thomas
H. D. Furch

Hermann Miller
per Brown & Allen
Attorneys

UNITED STATES PATENT OFFICE.

HERMAN MILLER, OF NEW YORK, N. Y.

IMPROVEMENT IN CANS FOR PAINT, LIQUIDS, &c.

Specification forming part of Letters Patent No. 136,085, dated February 18, 1873.

To all whom it may concern:

Be it known that I, HERMAN MILLER, of the city, county, and State of New York, have invented an Improvement in Cans for Paints, and other Materials or Liquids, of which the following is a specification:

This invention relates to cans the lids of which are capable of being tightly or hermetically closed without soldering them to the body of the can, whereby, while the contents may be preserved from outside exposure, every facility is afforded for the repeated opening and closing of the cans. The more particular object of the invention is to construct a can of the description specified, which shall present a wide mouth having an extended bearing-surface for the lid, and the mouth and lid be so constructed that they will be relieved from all liability to stick, and so that a small amount of cement will serve to hermetically seal the lid.

The invention is not only applicable to cans designed to hold paints mixed for use, but also various other fluid or semi-fluid substances which are liable to injury by exposure, and require to be hermetically sealed or closed up after each use or partial extraction of the contents of the can.

In the accompanying drawing, Figure 1 represents a side view of a can constructed in accordance with my improvement, having its lid closed and secured; Fig. 2, a sectional elevation of the upper portion of the can with its lid as in Fig. 1; and Fig. 3, a like view with the lid as being lifted from the body of the can.

Similar letters of reference indicate corresponding parts.

A is the body of the can, of cylindrical shape, and made with an interior groove, forming a hollow outside bead, *b*, around it at some little distance from the top edge of the can. The portion *c* of the body above this hollow bead is made to contract inwardly from the bead upward, and of curved shape at its top. This forms the mouth portion or terminal opening of the can, which the lid is required to cover or fit over as a conical valve. To this end the lid B has its rim *d* of a similar shape

to the portion *c*, so as to freely but closely fit over said part *c* throughout its entire depth; and the top of the lid is formed with an annular groove, *e*, into which the top edge of the portion *c* enters, and which forms a stiffening that protects the mouth portion of the body from being dented or bent out of shape, the said groove also serving to receive a small portion of cement, into which the edge of the mouth indents itself for the purpose of forming a perfect seal. By the construction of the lid as described, and seat or mouth portion over which it fits, the lid forms a close union when closed throughout the whole depth of the mouth portion *c*; but on commencing to open the lid, which is a detached one and lifts off, it is immediately relieved from contact with the body of the can, thus obviating sticking, and doing away with all difficulty in opening the can; also facilitating the closing of the same. To insure a perfect joint, and to prevent all liability of sticking arising from corrosion of metal in contact with metal, I propose to smear the outside of the portion *c* or inside of the rim of the lid, or both, with any suitable cement, which thus applied cannot drop into the contents of the can, and as thus applied but a small quantity of cement serves to hermetically close the joint. Projecting from the lower edge of the rim *d* of the lid are fastenings *f*, capable of passing over the bead *b* when the lid is closed, and of being bent inward to hug or lock under said head, whereby the lid is secured when closed, but may be readily released by simply bending back or outward said strips to clear the head when drawing off the lid. These strips may be made parts of the same piece or blank with the cover.

What is here claimed, and desired to be secured by Letters Patent, is—

The lid B, constructed to fit as a conical valve over the mouth portion *c* of the can, in combination with the groove *e* in the cover, substantially as shown and described.

HERMAN MILLER.

Witnesses:

MICHAEL RYAN,
FRED. HAYNES.