

(No Model.)

M. A. MARZYNSKI.
PAINT CAN.

No. 580,414.

Patented Apr. 13, 1897.

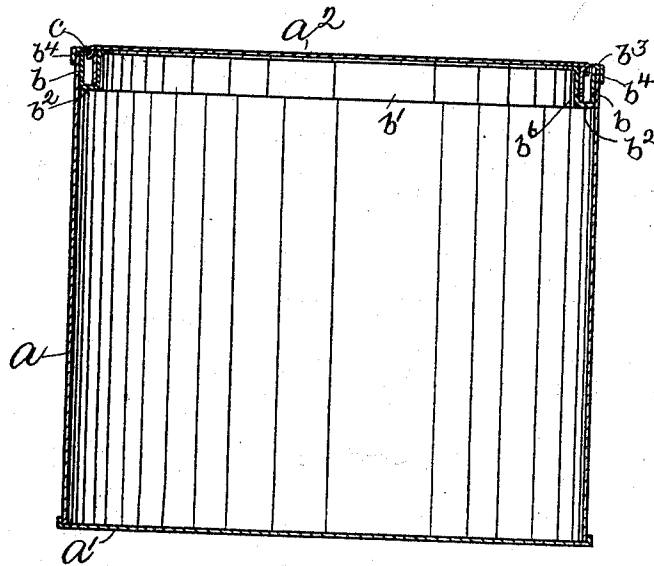


Fig. 1.

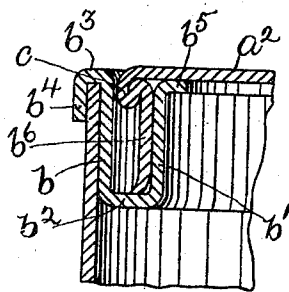


Fig. 2.

WITNESSES.

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PAINT-CAN.

SPECIFICATION forming part of Letters Patent No. 580,414, dated April 13, 1897.

Application filed November 23, 1895. Serial No. 569,883. (No model.)

To all whom it may concern:

Be it known that I, MORRISS A. MARZYNSKI, residing in Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Paint-Cans, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention relates to an improvement in cans or like vessels, and has for its object to provide a liquid-tight can especially adapted to hold paints, turpentine, and other liquids, and which is constructed, as will be described, to withstand severe blows without danger of leakage. The can is further constructed so that its cover may be utilized after the can has been once opened and so that a substantially broad and flat top or upper surface of the can is obtained when closed, which enables the cans to be packed or placed one upon the other, with the under can affording a broad bearing for the can supported by it. These and other features of this invention will be pointed out in the claims at the end of this specification.

Figure 1 is a vertical section of a can embodying this invention; and Fig. 2, a sectional detail, on an enlarged scale, to be referred to.

30 The can herein shown may and preferably will be made of tin and comprises a body portion *a*, herein shown as cylindrical in shape, a bottom portion *a'*, soldered or otherwise suitably united to the body portion *a*, a cover *a*², preferably of a construction as will be described, and an intermediate rim portion to be hereinafter more fully described and with which the cover coöperates to effect a liquid-tight joint.

40 The rim portion referred to comprises, essentially, two annular walls *b b'*, united by a bottom wall *b*², forming an annular cover-receiving groove open at its top and of smaller diameter than the body portion *a* and located within the same at its top or upper end, the said rim being united to and supported by the body portion *a* by providing the wall *b* with an outwardly-projecting annular flange *b*³, which extends over and rests upon the top edge of the can-body *a*, and from which extends a downwardly-projecting annular

lip or flange *b*⁴, which embraces the outside of the can-body *a* and forms with the wall *b* a smaller annular groove open at its bottom and into which the upper end or edge of the can-body projects. The rim referred to is an annular seamless ring formed from sheet metal by suitable machinery, (not herein shown,) and it may be soldered or otherwise secured to the can-body, and preferably the lip *b*⁴ and the wall *b* will be compressed or forced upon the can-body by suitable machinery. (Not shown.)

The wall *b'* of the substantially U-shaped rim may and preferably will be provided with an annular lip *b*⁵, which projects inwardly toward the center of the can-body, as clearly shown in Fig. 2, and which forms a bearing or seat for the cover *a*², which is of smaller diameter than the can-body *a*, and which is provided with a depending annular lip or flange *b*⁶, adapted to fit tightly the wall *b'* of the substantially U-shaped rim and forming therewith one seal for the can, the cover coöperating with the lip *b*⁵ to form another seal.

The cover *a*² is preferably provided with an annular bead *c*, preferably integral with the cover and formed by double-bending the flange back under the cover, as clearly shown in Fig. 2, the said bead being extended across the space or groove formed by the walls *b b'* of the rim, and preferably the said bead will not extend to the wall *b*, but will leave a small space between it and the said wall for the insertion under the bead of a suitable tool or device by which the cover *a*² may be pried off from the can-body.

By reference to Fig. 1 it will be seen that the can is provided with a flat top surface formed by the cover *a*², which affords a broad bearing for a similar can placed upon it, and this construction facilitates packing of the cans. Furthermore, it will be noticed that the joint between the wall *b'* of the rim portion and the cover is protected from blows by the body portion *a*, reinforced by two thicknesses of metal, namely, by the flange or lip *b*⁴ and the wall *b*, which construction enables the can-body to receive a very severe blow without danger of the joint or liquid seal between the cover and the wall *b'* of the rim being broken or started.

I may prefer to provide the wall b' with the flange or lip b^5 , but, if desired, the said flange or lip may be dispensed with and the wall b' carried up until it meets the cover a^2 , in which case the second seal for the cover would be formed between the top edge of the wall b' and the cover. In the present instance the walls $b b'$ of the rim portion are shown substantially parallel, but I do not desire to confine myself in this respect, as the said walls may be converging toward their bottom.

It will be noticed that the walls $b b'$ of the rim portion extend or project down into the can-body, so that the top edge of the cover-supporting wall b' is substantially flush with the top edge of the can, and as a result the cover a^2 when seated on its supporting-wall b' is substantially flush with the flange or lip b^3 and does not project above the can-body such a distance as would expose it to shocks or blows, thereby insuring protection for the cover and the liquid-tight joint between it and the wall b' from injury.

In order to strengthen the rim of the cover, so as to prevent the same from being bent or otherwise being forced out of shape by the tool which is employed to open it, the said rim is provided, preferably, with a double bend, as clearly shown in Fig. 2.

In order to prevent the flange b^6 of the cover being knocked or bent inward during transportation from the manufacturer to the user to such extent as to render it difficult to be fitted over the wall b' of the rim portion of the can, I prefer to make the lower portion of the flange b^6 outwardly flaring, as shown in Fig. 2, which outwardly-flaring lower portion of the flange seats on the bottom wall b^2 and forms a third seal for the cover. It will be seen that the cover is sealed to the seamless rim liquid-tight without the use of solder and that the said cover may be readily removed when it is desired to open the can, which removal does not destroy the cover, but leaves it in condition to be used to again close the can.

I claim—

1. A can for paint and like substances comprising an annular body portion, a seamless annular rim portion provided with an inner and an outer groove into the outer one of which the can-body extends to place the walls of the inner groove within the can-body, the inner wall of the said inner groove extending up to near the top of the can-body, and a cover provided with a bead extended across the upper part of the said inner groove and having a depending flange extended into the

inner groove to make contact with the inner wall of the said inner groove and to bring the top of the cover in contact with the upper edge of the said inner wall to effect a double sealing of the cover, substantially as and for the purpose specified.

2. A can for paint and like substances comprising an annular body portion, a seamless annular rim portion attached thereto and comprising the annular walls $b b'$, the bottom wall b^2 forming an annular cover-receiving groove, the flanges $b^3 b^4$ forming a groove for the reception of the can-body, the flange b^5 on the wall b' of the cover-receiving groove, and a cover provided with a bead and with a depending annular flange extended into the groove formed by the walls $b b'$ to make contact with the wall b' and bring the top of the cover into contact with the flange b^5 , substantially as and for the purpose specified.

3. A can for paint and like substances comprising a body portion, a rim portion attached thereto and provided with an inner groove open at its top and with an outer groove open at its bottom and into which outer groove the can-body extends to thereby place the inner groove within the can-body and below the top edge thereof, and a cover for the can provided with a bead comprising a double bend, and with a depending flange extended down into the said inner groove, the latter being of sufficient depth to permit the cover to be substantially flush with the top edge of the can-body when seated, substantially as described.

4. A can for paint and like substances comprising an annular body portion, a seamless annular rim portion attached thereto and comprising the annular walls $b b'$, the bottom wall b^2 forming an annular cover-receiving groove, the flanges $b^3 b^4$ forming a groove for the reception of the can-body, the flange b^5 on the wall b' of the cover-receiving groove, and the cover provided with a bead and with a depending flange b^6 outwardly flaring at its bottom, the flange b^6 being extended into the groove between the walls $b b'$ to seat its outwardly-flaring portion on the bottom of said groove and bring the top of the cover into contact with the flange b^5 , substantially as described.

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

MORRIS A. MARZYNSKI.

Witnesses:

JAS. H. CHURCHILL,
J. MURPHY.