

(No Model.)

F. A. WALSH.
SHEET METAL VESSEL.

No. 468,587.

Patented Feb. 9, 1892.

Fig. 1.

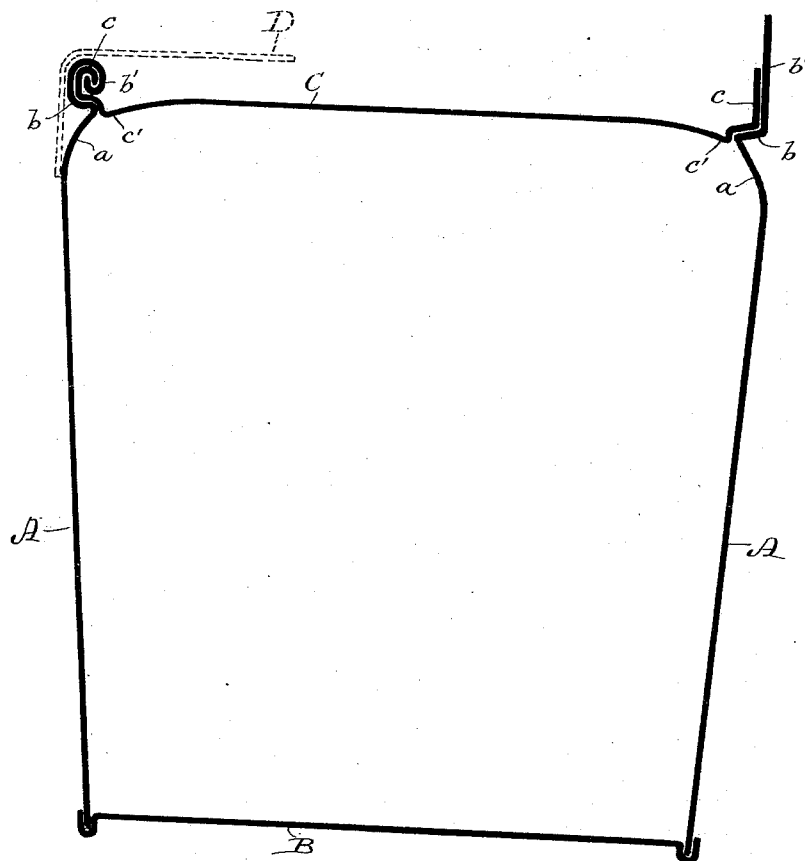
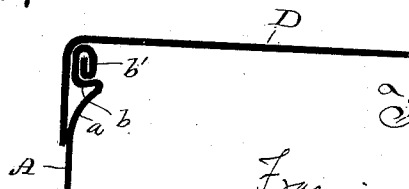


Fig. 2.



Witnesses
Geo. W. Young
Wm. Klug

Inventor
Francis A. Walsh.
By H. G. Underwood
Attorneys

UNITED STATES PATENT OFFICE.

FRANCIS A. WALSH, OF MILWAUKEE, WISCONSIN.

SHEET-METAL VESSEL.

SPECIFICATION forming part of Letters Patent No. 468,587, dated February 9, 1892.

Application filed August 12, 1891. Serial No. 402,440. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. WALSH, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Sheet-Metal Vessels; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to sheet-metal vessels; and it consists in certain peculiarities of construction, as will be fully set forth hereinafter and subsequently claimed.

In the drawings, Figure 1 is a vertical sectional view of one form of a sheet-metal vessel, illustrating the present invention; and Fig. 2 is detail sectional view illustrating another form thereof.

A represents the wall or body of the said vessel, which is shown in Fig. 1 as inwardly tapering from top to bottom, and in Fig. 2 as vertical.

B represents the bottom of the vessel, (shown in this instance as provided with an annular or continuous depressed groove for the reception of the lower edge of the body wall A, which is soldered or otherwise secured thereto;) but said bottom forms no part of the present invention, and any desired form of bottom may be applied to this vessel, or the bottom and body may be of one piece. At the upper right-hand side of Fig. 1 there is shown the appearance of this form of the vessel before the top closure is made and on the other side of said figure its appearance after said closure is made.

C represents a sealing-cover, made of any suitable material, such as thin or soft sheet metal, and preferably considerably thinner than the body of the vessel. The upper part of the body A is formed with a double flange of peculiar construction, its shape being such as to give added strength to this portion of the vessel to resist the strain incident to the subsequent closure of the top, as hereinafter described, after the vessel has been filled with the desired contents. The lower part *a* of this flange is beveled or curved and inclined inward and upward, while the upper part *b* of said double flange extends outward and slightly upward, being nearly horizontal and terminating (before closure) in a vertical

extension *b'*. The sealing-cover C, when one is employed, has, preferably, a similarly-shaped angular flange *c*, as shown at the right-hand side in Fig. 1, and an annular or continuous depression *c'* adjacent to said flange. When the closure is effected, these parts assume the relative positions shown at the left-hand in Fig. 1, the part *b* of the flange being then practically horizontal and the part *a* rounded out by pressure from above, while the flange extension *b'* is brought over and up again, forming a rolled or beaded seam and causing the cover-flange *c* to become turned over and down and closely interlocked with the said flange-extension *b'*.

In Fig. 2 the sealing-cover C is omitted; but the flange extension *b'* is formed over precisely the same, producing a beaded edge to the vessel.

D, Fig. 2, is a slip-cover, (which may also be applied to the form shown in Fig. 1, as shown by dotted lines,) and whose lower edge rests closely against the vessel-body just below the beginning of the inward bend of the part *a* of the described double flange *a b*. This slip-cover, by wedging down upon the beveled surface *a* as it is applied to place, forms a practically air-tight cover, and is especially desirable when the sealing-cover C has been removed and the contents exposed.

These vessels are especially designed for holding paints and colors ground in oil or japan, and in the latter case a slip-cover is a necessity after the sealing-cover has been cut away. The vessels are also designed to contain lard, butter, and analogous materials.

The specified construction of body A, with the double flange *a b* and flange-extension *b'*, is equally applicable to seamless breasts designed to be secured to separately-made vessel-bodies, and is also adapted equally well to both round and square vessel-bodies.

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

1. A sheet-metal vessel comprising a body portion having a double flange near its end, the lower part of this flange being beveled or curved inward and upward, so as to flare outward and form a brace, and the upper part of said flange extending nearly horizontally outward and terminating in an extension

formed into an inwardly-rolled bead or seam, substantially as set forth.

2. A sheet-metal vessel comprising a body portion having a double flange near its end, 5 the lower part of this flange being beveled or curved inward and upward, so as to flare outward and form a brace, and the upper part of said flange extending nearly horizontally outward and terminating in an angular extension, and a sealing-cover having an angular 10 flange united by an inwardly-rolled seam to

the said flange extension of the vessel-body, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in 15 the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FRANCIS A. WALSH.

Witnesses:

H. G. UNDERWOOD,
F. BROWNELL.