E. T. COVELL.

Metallic-Vessel.

No. 167,504. Patented Sept. 7, 1875.

Fig. 1

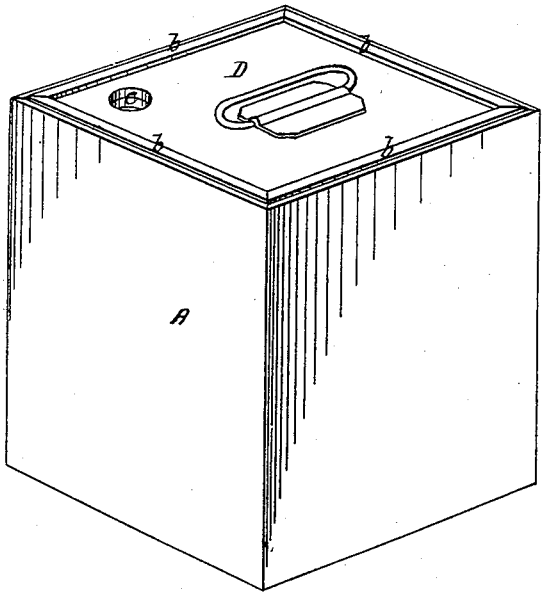
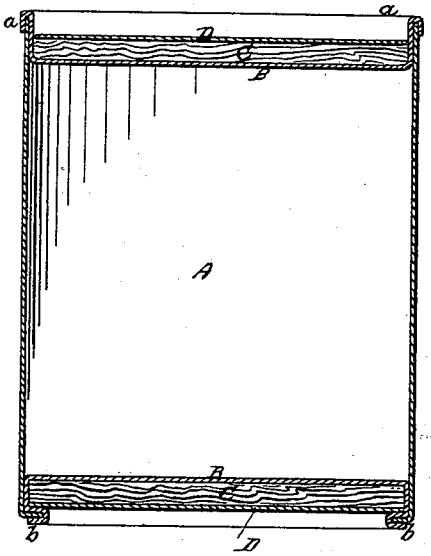


Fig. 2.



Witnesses:

Ewellasbrook

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Inventor:

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by alty's Poole & Bailey

UNITED STATES PATENT OFFICE.

EDWARD T. COVELL, OF NEW BEDFORD, MASSACHUSETTS.

IMPROVEMENT IN METALLIC VESSELS.

Specification forming part of Letters Patent No. **167,504**, dated September 7, 1875; application filed August 10, 1875.

To all whom it may concern:

Be it known that I, EDWARD T. COVELL, of New Bedford, Massachusetts, have invented certain new and useful Improvements in Metallic Vessels, of which the following is a specification:

This invention relates particularly to metallic cans or vessels that have sunken heads or ends. In vessels of this description the projecting edges are very liable to be bent and broken, to the permanent injury of the vessel. To remedy this defect, I combine, with the sunken head or end, an outer head, which fills the space between the sunken head or end and the projecting edges of the can body. This outer head is preferably made of wood, and I prefer to unite it with the can body by making it of a thickness somewhat less than the height of the projecting edges, and bending these edges inwardly down upon it after it has been placed in position. I also, in the preferred mode of constructing the heads, make use of an exterior metallic covering-plate, which is placed on the wooden head before its edges are bent down, as aforesaid.

In the accompanying drawing I have indicated a way of carrying my invention into effect.

Figure 1 is a perspective view of a can embodying my improvement. Fig. 2 is a vertical central section of the same.

A is the body of the can; B, the sunken head; C, the wooden filling or outer head; D, the external covering-plate. To put the parts of the can together, I proceed as follows: The can body is made with straight unbent edges at the ends. On its ends are placed the sunken heads, which fit down within the can body, and are of such size that their outer edges may be bent down over and upon the exterior of the ends of the can body, as shown at *a*, Fig. 1. One of the heads is formed with a filling-orifice, punched or cut in it before the head is applied to the body. Above the sunken head there is placed the outer head or filling C, of wood or other suitable material, which fits within the projecting edges of the can, and is of a thickness somewhat less than the height of those edges. Upon the wooden filling is placed a metal plate or shield, D.

The upper end of the can in Fig. 2 represents the parts in the position above described.

To complete the formation of the heads or ends, the projecting edges of the can are now pressed or otherwise bent inwardly down upon the parts C D, as represented at *b* in Figs. 1 and 2, thus firmly securing said parts in place, and making a strong and tight head. The wooden head and external metal blank are formed, as indicated at *c*, with orifices, which register with the orifice formed in the sunken head. After the heads or ends are thus made they are dipped into molten solder for the purpose of sealing the joints. The heads are so formed that there is no danger of their springing off during this operation.

Cans or other metallic vessels have been made with internal wooden heads, but such vessels are objectionable for liquids, for the reason that the wooden heads absorb and give color and taste to the same. Under my invention the wooden heads are completely isolated from contact with the contents of the vessel. I am also enabled to use much lighter and cheaper stock than otherwise would be practicable.

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

1. In a metallic vessel, the combination of a sunken metallic head or end, an outer head or filling piece, and projecting edges formed by the can body and sunken head, and inwardly bent down upon the outer head or filling piece, as and for the purposes described.

2. The combination, in a metallic can or vessel, of the following elements, namely: a sunken metallic head or end, an outer wooden head or filling piece, an external covering metallic plate, and projecting edges inwardly bent upon said covering-plate, substantially as shown and described.

In testimony whereof I have hereunto signed my name this 7th day of August, A. D. 1875.

E. T. COVELL.

Witnesses:

HORACE M. BROWN,

WM. H. TAYLOR.