C. E. Russ,

Packing Sheet Metal Cans.

No. 111,684. Patented Feb. 7, 1871.

Fig 1

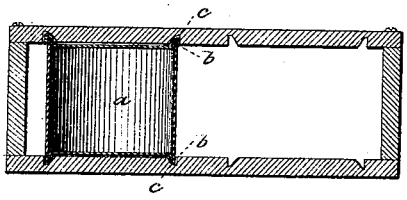


Fig 2

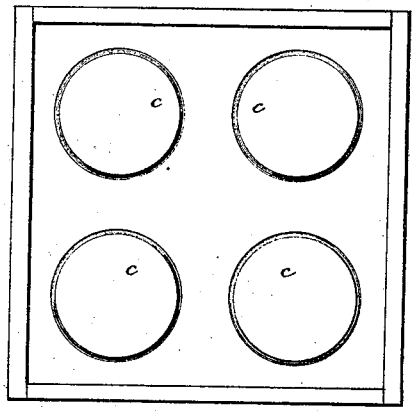
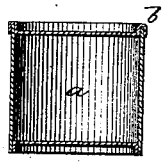


Fig 3



Witnesses.

Harry King.

Phil. T. Dodge.

Inventor.

Charles E. Russ.

by Dodge & Munn

his attys.

United States Patent Office.

CHARLES E. RUSS, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 111,684, dated February 7, 1871.

IMPROVEMENT IN BOXES FOR PACKING AND TRANSPORTING SHEET-METAL CANS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES E. RUSS, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented certain Improvements in Method of Packing Sheet-Metal Cans and Cylindrical Vessels for Transportation, of which the following is a specification, reference being had to the accompanying drawing, in which like letters refer to like parts.

In the drawing—

Figure 1 is a vertical section showing the top and bottom of an ordinary packing-box, with a section of the can *a a* in position, with flanges or projections *b b* on the top and bottom of the can, and grooves *c c* in the top and bottom of the box;

Figure 2 is a horizontal projection of the top or bottom of the packing-box, showing the circular grooves *c c*, which hold the corresponding flanges *b b* on the top and bottom of the cans when in position; and

Figure 3 is a vertical section of the can showing the flanges *b b* above named.

The object of my invention is to furnish a method of packing sheet-metal cans and cylindrical vessels made for holding paints, oils, and other materials, in the common wooden packing-boxes, so that in the rough handling incident to transportation they may be kept in position and transported free from the bruises and injuries to which they are otherwise exposed.

I am aware that a method has been devised for packing the cylindrical cans made coned-shaped toward the top, and with the top and bottom sides flat or flush with its edges, by cutting recesses of the exact form of these top and bottom sides into the sides of the packing-box for them to fit into. This method of packing requires the boxes to be made of good clear stuff, and is not adapted for the secure and close packing of cans having projecting flanges on their ends, for the reason that the recesses weaken the boxes, and, without a groove cut in these recesses, would not permit the entire ends of the cans to bear upon the box.

My method obviates these objections, as by it cheaper material may be used, as less cutting is required, and the ends of the cans, notwithstanding the flanges, are brought in close contact with the box.

In my method the sheet-metal cans *a a* used are made with the surfaces of their tops and bottoms slightly sunken or depressed, so as to have a circular projection or flange *b b* about them, as shown in figs. 1 and 3.

The boxes *d d*, in which they are to be packed, are made of the required depth, and have cut into the inner surfaces of their tops and bottoms circular grooves *c c*, as shown in fig. 2, and of the requisite size and depth to receive the flanges *b b* of the cans and allow the surface of the bottom and top of the same to bear against the surface of the box, as shown in fig. 1.

The grooves on the inner sides of the top and bottom of the box are so arranged as to come immediately opposite each other, and to closely and securely embrace the can and hold it immovably, as is clearly shown in fig. 1.

By this method it will be seen that no recesses are required, that a circular groove that can be quickly and easily cut is all that is necessary, and that complete and firm packing is secured without weakening the box.

Having thus described my invention,

What I claim is—

The method of packing metallic vessels constructed with a projection or chine about their ends, by means of a box having the inner surface of its top and bottom provided with corresponding grooves to receive the projection or chine, for the purpose of firmly holding the vessel in the manner herein shown and described.

CHARLES E. RUSS.

Witnesses:

AUGUSTUS RUSS,

C. M. BENNETT.