Oct. 16, 1923. 1,470,766

H. J. SCHAFFER

SHEET METAL CONTAINER

Filed May 13, 1922

Fig. 1.

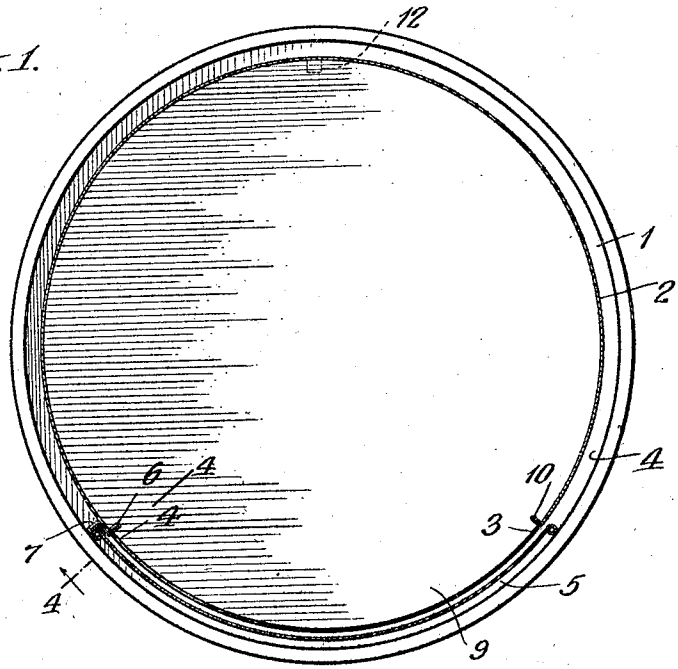



Fig. 4.

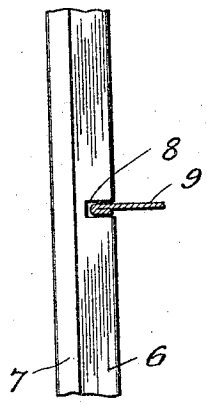



Fig. 2.

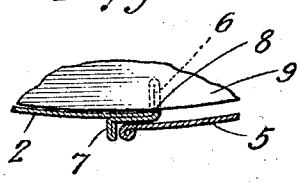
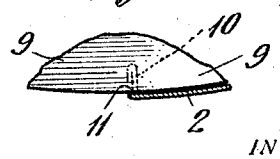



Fig. 3.




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# UNITED STATES PATENT OFFICE.

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## SHEET-METAL CONTAINER.

Application filed May 13, 1922. Serial No. 560,525.

*To all whom it may concern:*

Be it known that I, HENRY J. SCHAFFER, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sheet-Metal Containers (Case B), of which the following is a full, clear, and exact description.

This invention relates to sheet metal containers such as may be used for example as household bread and cake boxes. In such containers in which shelves are employed, the supporting lugs for the shelves are commonly soldered to the lateral walls which requires considerable hand work, and particular care is necessary to get the lugs always all at the same height for each shelf. The soldering also frequently becomes loose and fails to hold the lugs to the walls.

An object of the invention is to provide an improved sheet metal container in which one or more of the shelf supporting ledges will be formed integrally with the sheet metal forming the lateral wall of the container, and which can be formed by machine work during the usual manufacturing steps.

A further object is to provide an improved container of this type, which is simple, strong, durable, and relatively inexpensive. Other objects and advantages will be apparent from the following description of an embodiment of the invention and the novel features will be particularly pointed out in claims.

In the accompanying drawings:

Fig. 1 is a sectional plan of a container constructed in accordance with this invention;

Fig. 2 is an enlarged fragmentary plan of a portion of the container shown in Fig. 1;

Fig. 3 is a similar view of another portion of the container; and

Fig. 4 is a sectional elevation of a portion of the container taken substantially along the line 4—4 of Fig. 1.

In the illustrated embodiment of the invention, the container is shown as composed of upper and lower end walls 1, (only the lower wall being shown) which are connected by a cylindrical lateral wall 2 in a suitable manner. The cylindrical lateral wall has a section omitted to form a door or opening 3 in the side of the casing through which access may be had to the interior of the container. The upper and lower walls 1 are provided with grooves 4 immediately adjacent the lateral wall, but exteriorly thereof, which form trackways in which an arcuate door 5 is slidable to close or uncover the door opening 3.

One of the edges of the lateral wall 2 along the door opening 3 is bent radially inwardly and then doubled back upon itself to form a radially projecting rib 6 and is then bent back along the exterior face of the lateral wall for a short distance, then outwardly at right angles to the face, to form a door stop 7, the outwardly extending part 7 being preferably doubled back upon itself to conceal the sharp edge of the same and produce a smooth or finished edge. The position of the door stop 7 at a short distance from the edge of the door opening, permits the forward edge of the door to overlap the door opening somewhat and thereby completely close the same when the door is moved to closed position. The rib 6, at an intermediate point in its height, is slotted from its inner edge as at 8, in which slot the peripheral edge of a shelf 9 may extend and be supported thereby.

The edge of the door opening opposite the rib 6 is bent radially inwardly and is then doubled back upon itself to form a rib 10, similar to the rib 6. The rib 10 is provided with a slot 11 at a height therein corresponding to the height of the slot 8 above the bottom wall. In this slot 11 the peripheral edge of the shelf 9 may also extend and be supported therein. Any suitable ledge 12 may be provided upon the interior of the lateral wall 2, approximately midway between the ribs 6 and 10 upon which the shelf 9 may rest and be supported. This ledge 12 may be soldered to the wall but is preferably a lug formed by pressing the lateral wall inwardly to a slight extent at that point.

To insert the shelf, it is passed in a diagonal position through the door opening into the container, and its rear edge is then elevated considerably above the forward edge so as to permit the forward edge to enter the slots 8 and 11 in the ribs 6 and 10 respectively, after which the rear edge of the shelf may be lowered upon the lug or ledge 12. The shelf is thus supported at three

points, so as to be stable. The shelf may be removed for cleaning or other purposes by lifting the rear edge and withdrawing the forward edge from the slots 8 and 11 to disengage the shelf from the ribs 6 and 10, after which the shelf may be tilted diagonally to the door opening so as to permit its withdrawal therethrough. It will be observed that the ribs 6 and 10 provide added rigidity for the lateral wall at the door openings and form a very effective and durable support for the shelf without the use of solder and without soldering operations. The bending of the lateral wall to form the ribs 6 and 10 and the door stop 7 may be easily accomplished in the usual sheet metal working apparatus.

It will be obvious that various changes in the details and arrangement of parts herein described and illustrated for the purpose of explaining the nature of the invention may be made by those skilled in the art within the principle and scope of the invention.

I claim:

1. A sheet metal container having a lateral wall disposed between end walls with a section of the lateral wall omitted to form a door opening through which access to the interior may be had, one of the side edges of the lateral wall which forms the door opening projecting into the interior of the casing and doubling back upon itself to form a vertically extending shelf supporting rib, then extending back along the outer face of the lateral wall, and then outwardly at right angles thereto to form a vertical door stop rib allowing the slidable door when closed to overlap the lateral wall, the shelf supporting rib having at a point intermediate of its height a slot extending into the same from the inner edge and into which the edge of a shelf may be disposed for support.

2. A sheet metal container having a lateral wall disposed between end walls, with a section of the lateral wall omitted to form a door opening through which access is had to the interior of the container, one of the side edges of the lateral wall along the opening having a doubled back portion projecting as a rib into the container and provided with a notch in its inner edge in which a shelf may be received and supported.

3. A sheet metal container having an opening in a lateral wall through which access may be had to the interior of the container, a side edge of the lateral wall along the opening projecting into the container at substantially a right angle to the lateral wall and doubling back upon itself to form a vertical inwardly projecting rib, said rib having intermediate of its length a ledge for supporting a shelf edge.

4. A sheet metal container having an opening in a lateral wall through which access may be had to the interior of the container, a side edge of the lateral wall along the opening projecting into the container at substantially a right angle to the lateral wall and doubling back upon itself to form a vertical inwardly projecting rib, then doubling back along the lateral wall, and then outwardly to form a door stop rib allowing the slidable door when closed to overlap the lateral wall, the first mentioned rib having intermediate of its length a ledge for supporting a shelf edge.

In witness whereof, I hereunto subscribe my signature.

HENRY J. SCHAFFER.