

A. R. WALLER.
CANS.

No. 177,902.

Patented May 23, 1876.

Fig. 1.

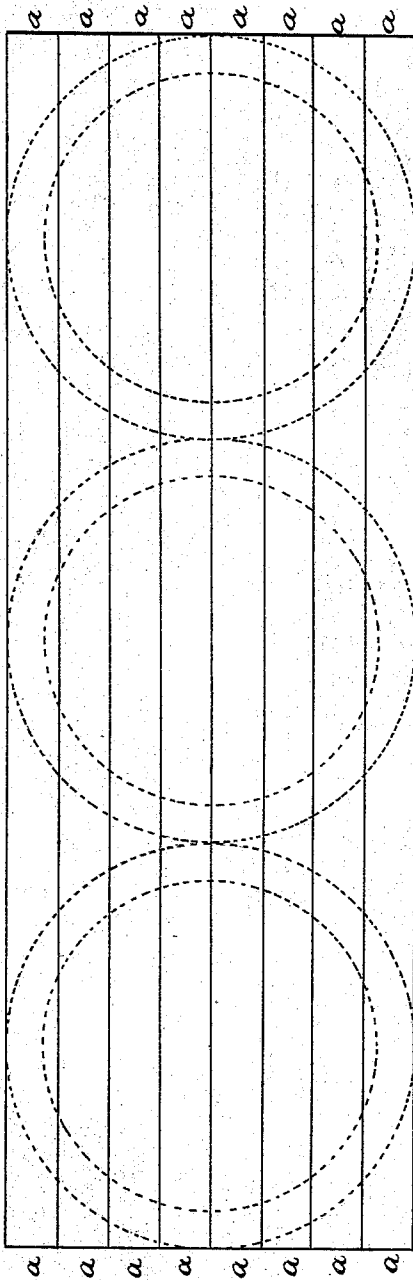
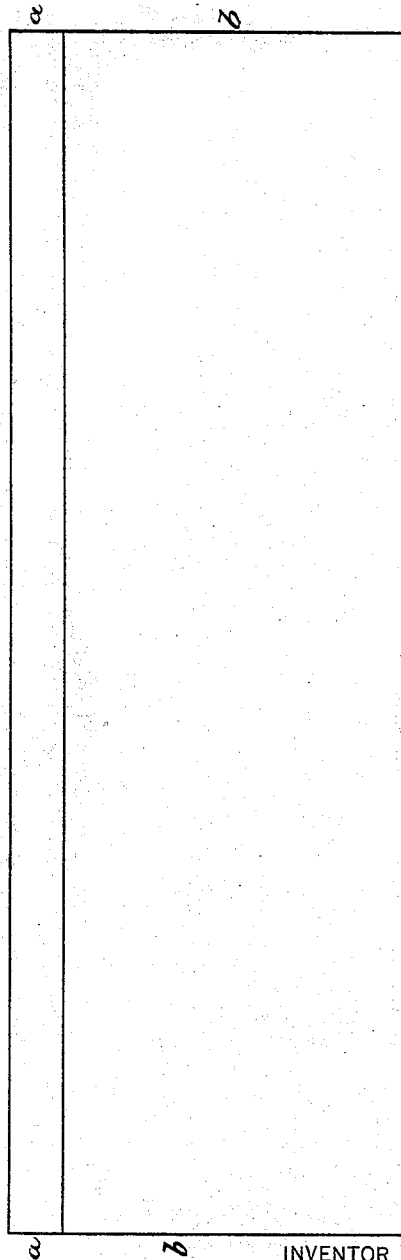


Fig. 3.



Fig. 2



WITNESSES

J. W. Farleigh
Smith (Brookes)

INVENTOR

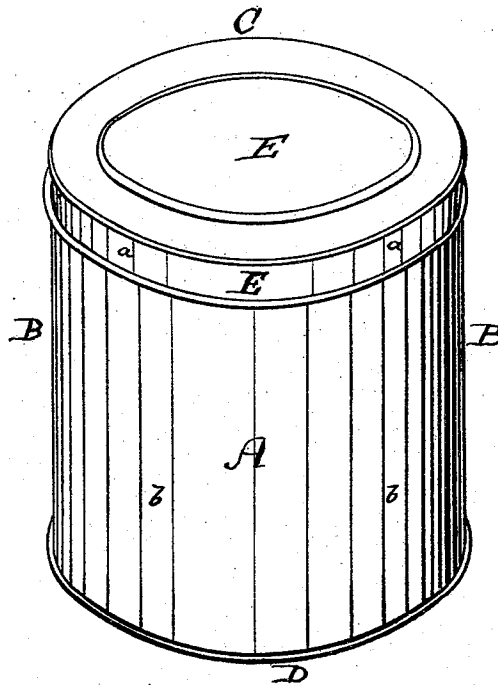
Arthur R. Waller
per
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Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

ARTHUR R. WALLER, OF NEW YORK, N. Y.

IMPROVEMENT IN CANS.

Specification forming part of Letters Patent No. **177,902**, dated May 23, 1876; application filed September 3, 1875.

To all whom it may concern:

Be it known that I, ARTHUR R. WALLER, of the city, county, and State of New York, have invented certain Improvements in Metal Cans for packing paints, fruit, milk, varnish, and other substances, of which the following is a specification:

My invention relates to improvements in the manufacture of that class of metal cans in which portions of the said cans are formed of thinner or softer metal than the main portion of the same, in order that they may be more readily opened to obtain access to the contents of the can than could be the case if the cans were constructed throughout of metal strong enough to bear the general wear and tear of the cans.

The nature of my improvement will be readily understood by reference to the accompanying drawings, in which—

Figure 1 represents a plan view of a portion of a tin cut ready to be employed in manufacturing parts of cans according to my invention. Fig. 2 represents the periphery or sides of one of my improved cans laid out flat; and Fig. 3, a section of the same. Fig. 4 shows a perspective view of one of my improved cans complete.

Similar letters of reference are employed to indicate corresponding parts wherever they occur.

According to my invention I take a sheet of soft tin or other suitable metal, which I cut into strips *a*, as shown by Fig. 1. I then take one of the said strips *a* and swage or solder the same on the side of a sheet, *b*, of the proper size to form, when joined with a strip, *a*, the side or periphery B of a can, A, as shown by Fig. 2. The combined sheet, Figs. 2 and 3, having been thus formed, I then attach the top C and bottom D in the ordinary manner, leaving the opening E to be closed subsequently.

It will be seen readily that by forming the sides or periphery B of a can with a strip of soft metal, *a*, applied, as shown, in such man-

ner that the said strip *a* shall form a continuous portion of the width of the side or periphery, and having, when the can is fully completed (as shown by Fig. 4) a ring, E, of soft metal around the can A, that great economy is effected in the manufacture of cans of this description; and, in addition, by inserting the point of a knife in the ring E and running it round the can, the end of the said can can be very readily opened.

I am aware that annular portions of soft metal have been inserted in the ends of cans for the purpose of facilitating the opening of such cans, but in this case great waste is effected in the manufacture. As represented by the dotted lines in Fig. 1, it will be seen that out of the same sized sheet of metal, according to my invention, I can obtain the necessary material for the soft portion of eight cans. According to the process of manufacture wherein circular disks of metal are inserted into the ends of the cans only three such disks can be obtained.

I am also aware that metal cans have been constructed with a strip of soft metal soldered to the wall of the can and afterward to the cover of the same, there being a thickness of harder metal inside the soft metal.

Having thus described my invention, I would have it understood that I lay no claim to a ring or plate of soft metal inserted in the top or end of a metal can, as I am aware the same has been previously used; but

What I do claim, and desire to secure by Letters Patent, is—

As a new article of manufacture, a metal can constructed with a strip or rim of soft metal, E, inserted between the ends or top and bottom of the can, and solely forming a continuous portion of the periphery or sides B thereof, substantially as shown and described.

ARTHUR R. WALLER.

Witnesses:

S. T. McDOUGALL,
JACOB DuBOIS.