

(No Model.)

A. R. WALLER.
SHEET METAL CAN.

No. 602,648.

Patented Apr. 19, 1898.

Fig. 1.

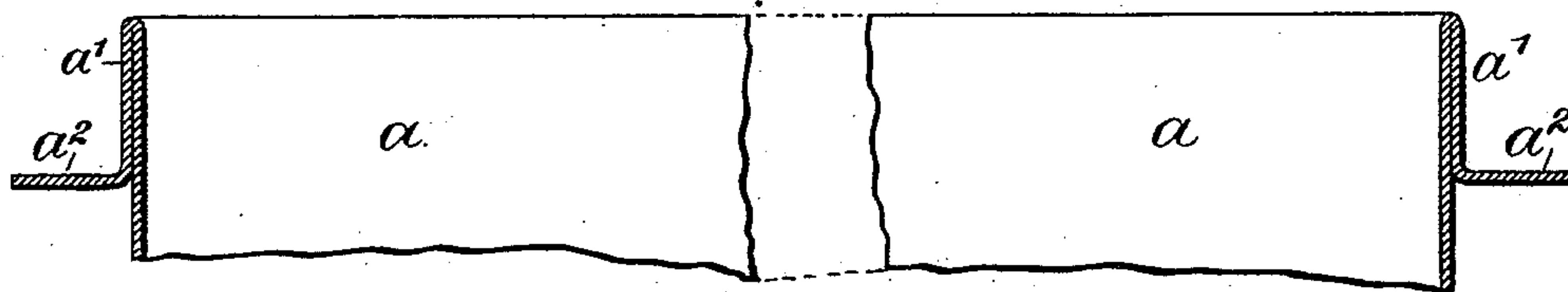


Fig. 2.

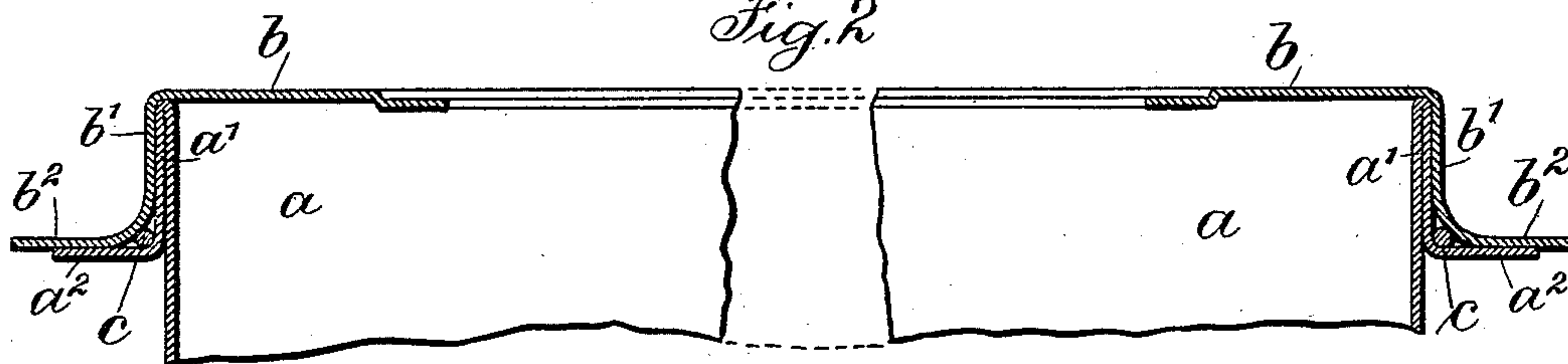


Fig. 3.

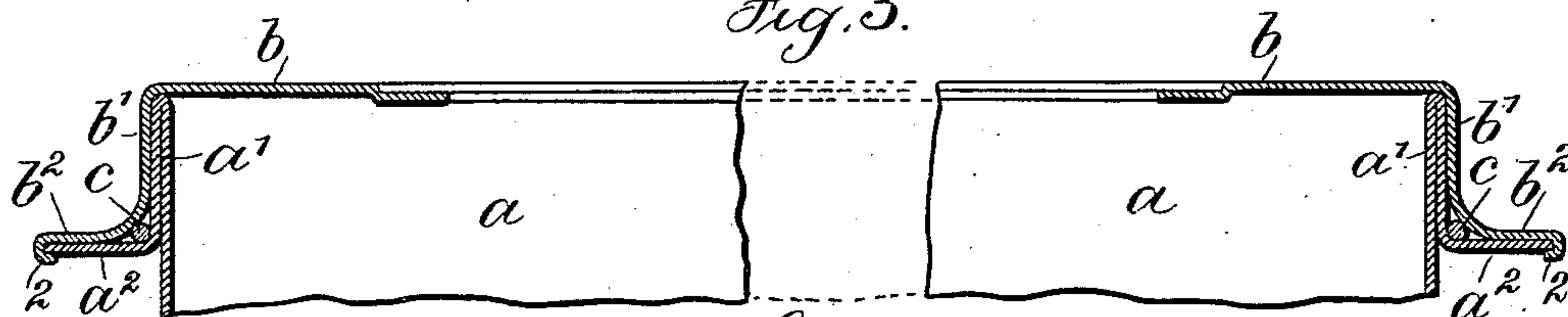
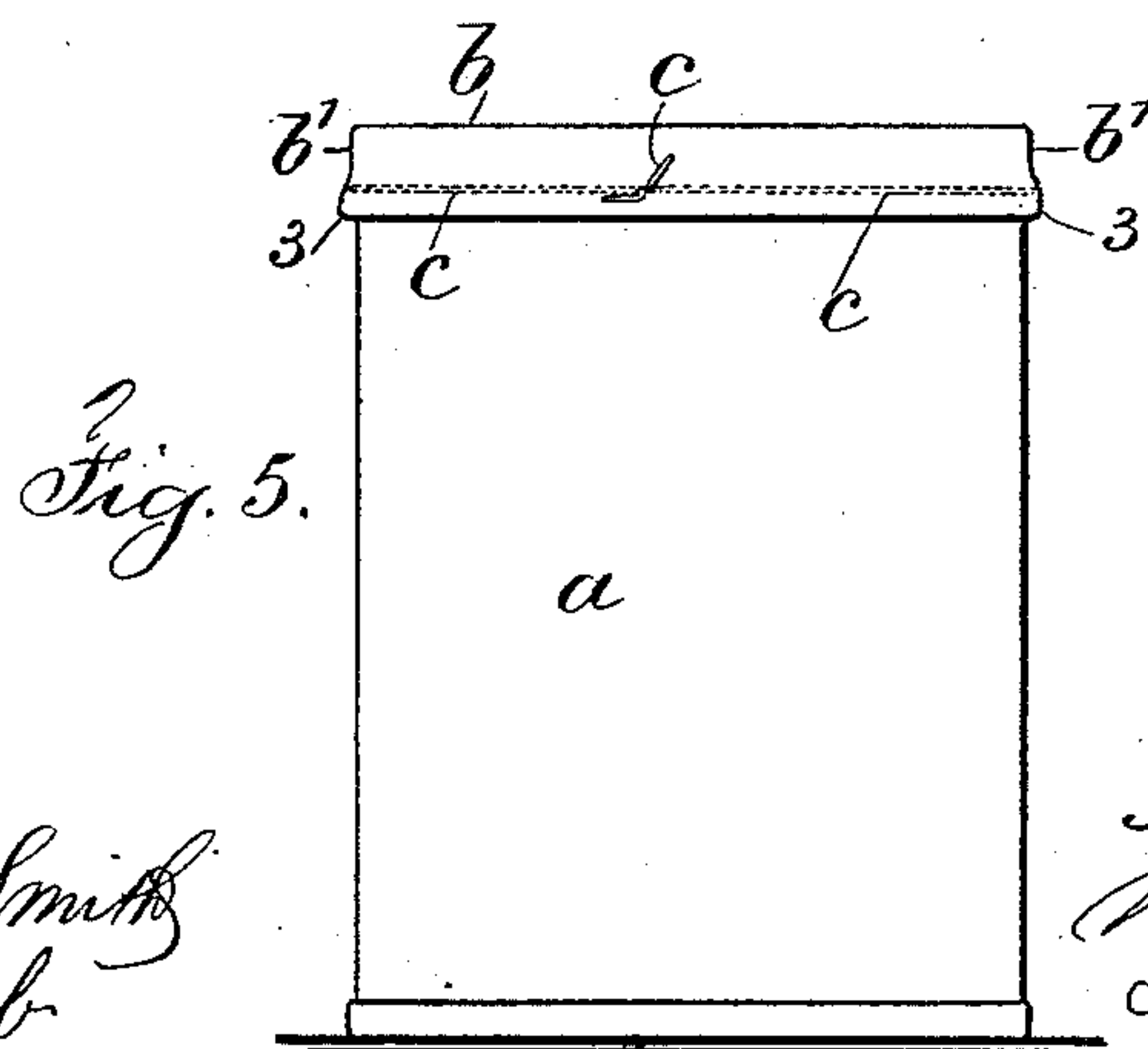
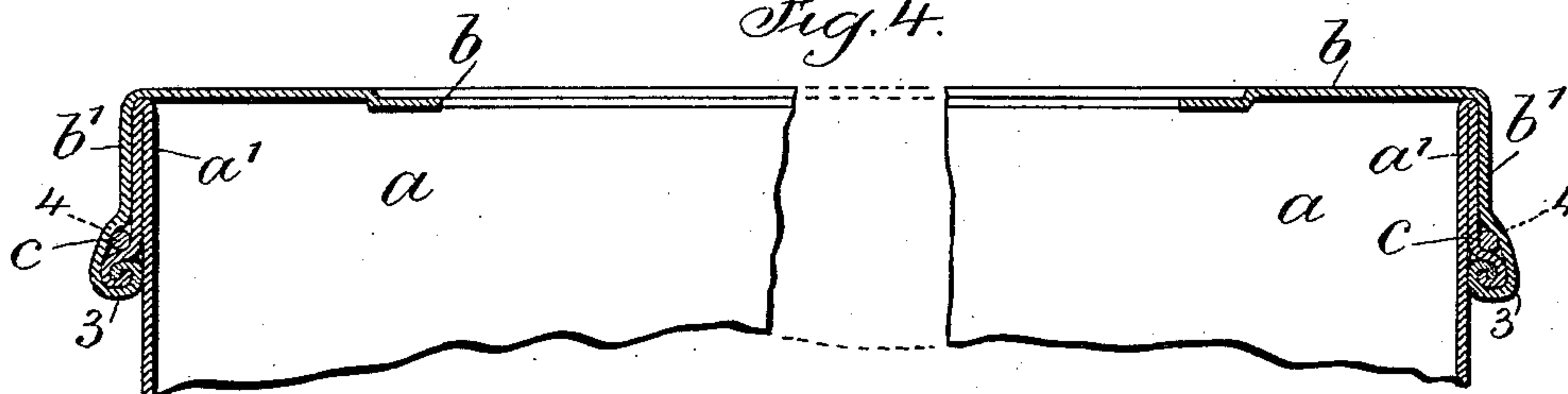


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE,

ARTHUR R. WALLER, OF BELLEVILLE, NEW JERSEY, ASSIGNOR TO THE
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SHEET-METAL CAN.

SPECIFICATION forming part of Letters Patent No. 602,648, dated April 19, 1898.

Application filed June 26, 1897. Serial No. 642,368. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR R. WALLER, a citizen of the United States, residing at Belleville, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Sheet-Metal Cans, of which the following is a specification.

My invention relates to a construction of sheet-metal cans employing a wire for severing the cover from the body of the can to allow the contents to be removed; and the objects of my invention are to leave a rim to the cover and a stiffening-rib to the body after the severing has been accomplished.

In carrying out my invention the upper edge of the can-body is turned over and flanged. This is preferably done in the flat sheet metal before the cylindrical body is rolled up. The cover has a flanged rim, and the same extends over the double upper edge of the body, and the parts are preferably so proportioned that when the cover rests on the top edge of the body its flange rests upon the flange of the body. The flange of the cover extends slightly beyond the flange of the body. The channel at the junction of the flange of the body and its turned-over edge receives the severing-wire, and the flanged rim of the cover sets over said wire, and the respective ends of the wire project. The respective flanges are united by rolling them together as a bead in the manner hereinafter more particularly described.

In the drawings, Figure 1 is a partial and broken cross-section of the upper edge of the can-body. Figs. 2, 3, and 4 are similar views of the upper edge of the can-body and cover in the successive stages of bringing together and uniting the same, and Fig. 5 is an elevation in small size of an entire can made according to my improvement.

The can-body a at its upper edge is turned over at a' and flanged at a^2 . This is preferably done in the flat sheet before the cylindrical body is rolled up. The cover b has a rim b' and flange b^2 , and the same fits over the double body edge a' , with the cover resting on the edge of the body and the flange b^2 upon the flange a^2 of the body. The channel formed at the junction of the portion a' and flange a^2 receives the severing-wire c , the respective ends of which are caused to extend

through the overlying curved portion connecting the rim b' and flange b^2 , as seen in Fig. 5, to be grasped in the operation of severing the cover from the body. The flange b^2 extends beyond the flange a^2 , and in connecting the said flanges the edge of the flange b^2 is first turned under the edge of the flange a^2 , as shown at 2, Fig. 3, and in the next operation the two flanges are rolled together, preferably into a bead 3, forced inward against the body of the can. These operations are performed in any manner and by any suitable mechanism. No solder is employed or needed in making this joint, and the manufacture is cheapened to this extent. Besides the operations are quickly performed. One end of the wire c is left free to be grasped and the other end, as shown in Fig. 5, is simply turned over; but it may be otherwise secured.

The operation of severing the metal at the line 4 to free the cover is readily and rapidly performed by pulling upon the wire, and thereafter the cover b and rim b' are left intact to be used upon the can-body to keep the contents closed to the air, and the bead 3 assists in stiffening the can-body.

I claim as my invention—

1. The can-body having an upper edge turned over and flanged in combination with the cover having a rim and flange to set over the double upper edge and flange of the body, a wire in the space between the parts and the parts united by the flanges rolled together into a bead, substantially as set forth.

2. The can-body having an upper edge turned over and flanged in combination with the cover having a rim and flange to set over the double upper edge and flange of the body, and extend beyond said flange, a wire in the space between the parts with its end protruding, and said parts being rigidly connected by bending the edge of the cover-flange over the edge of the body-flange and then rolling the flanges together into a bead, substantially as set forth.

Signed by me this 21st day of June, A. D. 1897.

ARTHUR R. WALLER.

Witnesses:

GEO. T. PINCKNEY,
HAROLD SERRELL.