

No. 670,720.

J. M. MUNGIVEN.  
SHEET METAL CAN.

Patented Mar. 26, 1901.

(Application filed Aug. 20, 1900.)

(No Model.)

Fig. 2.

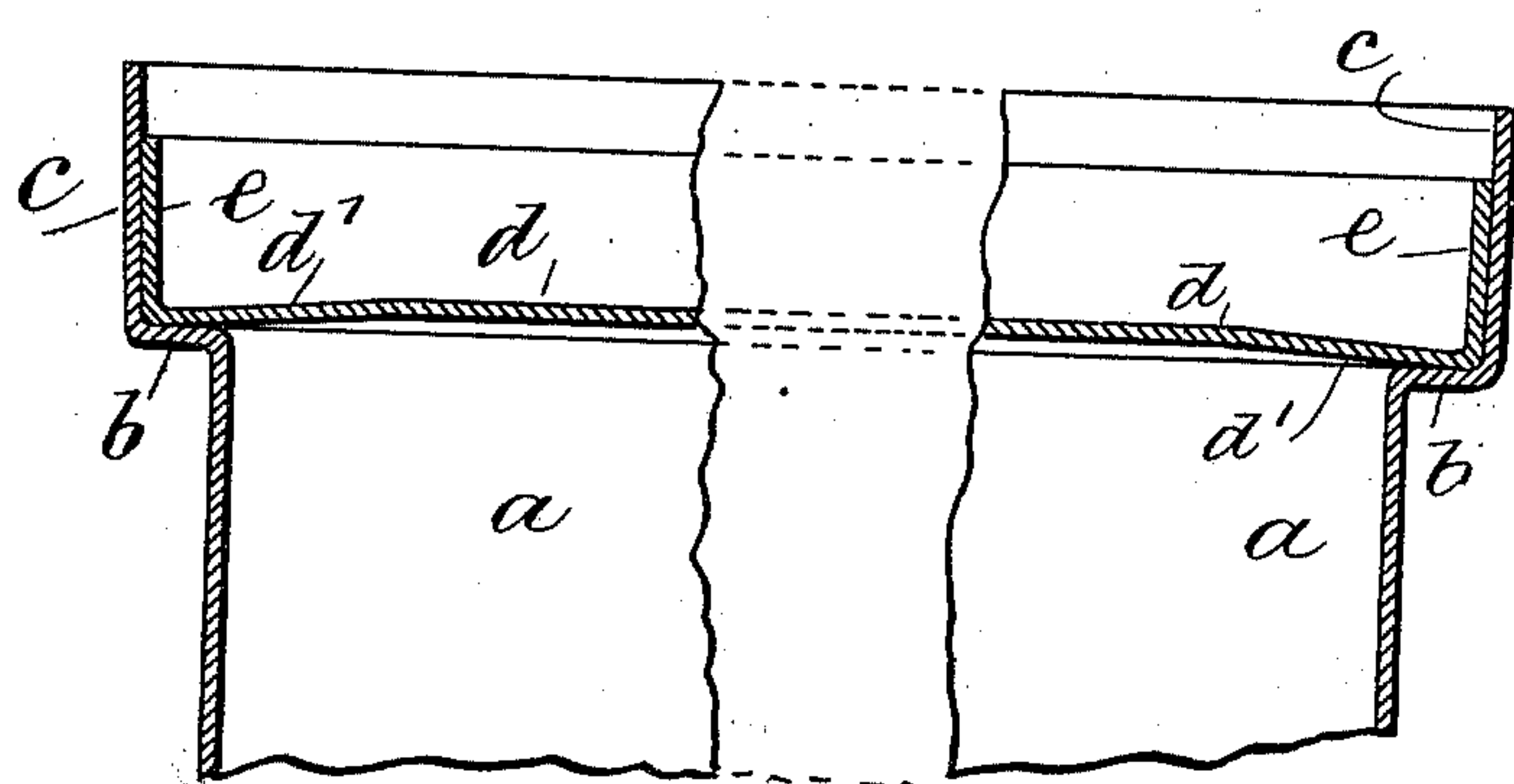


Fig. 3.

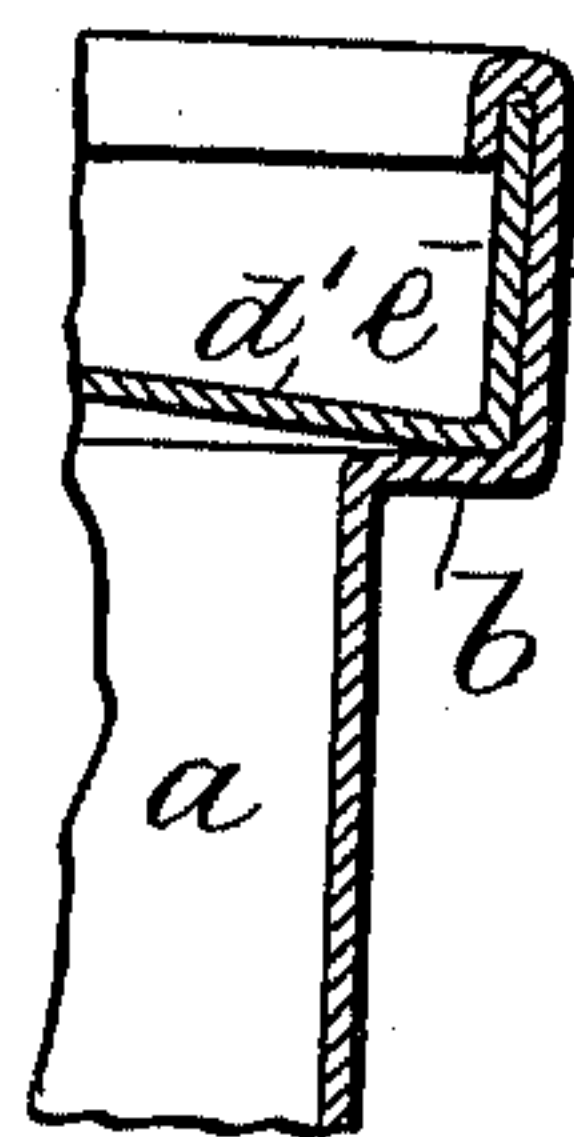


Fig. 4.

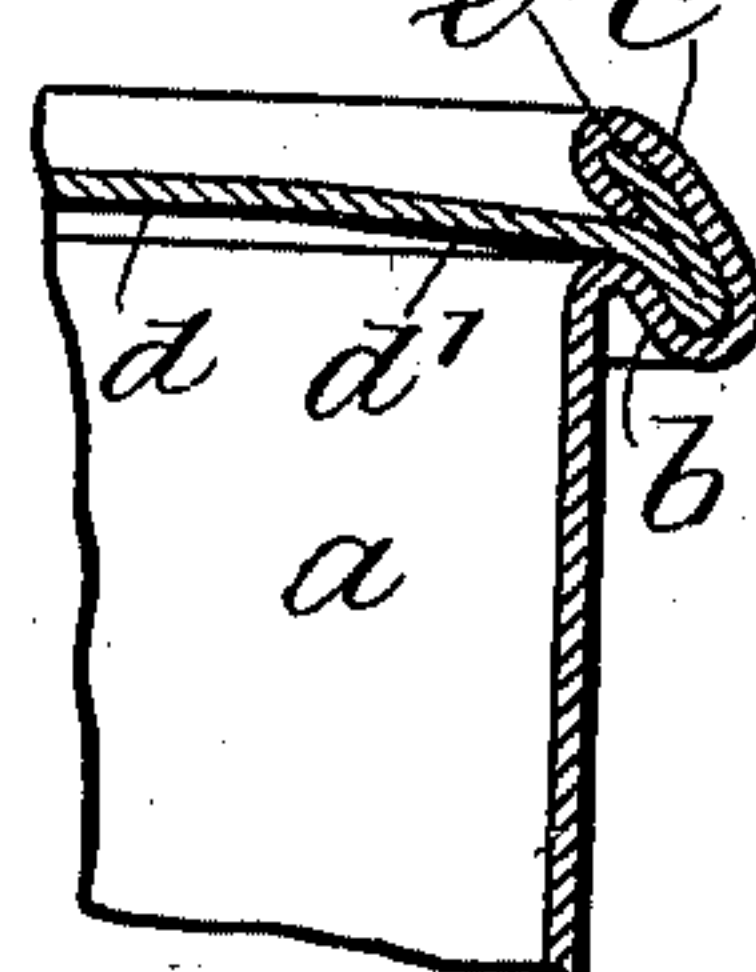
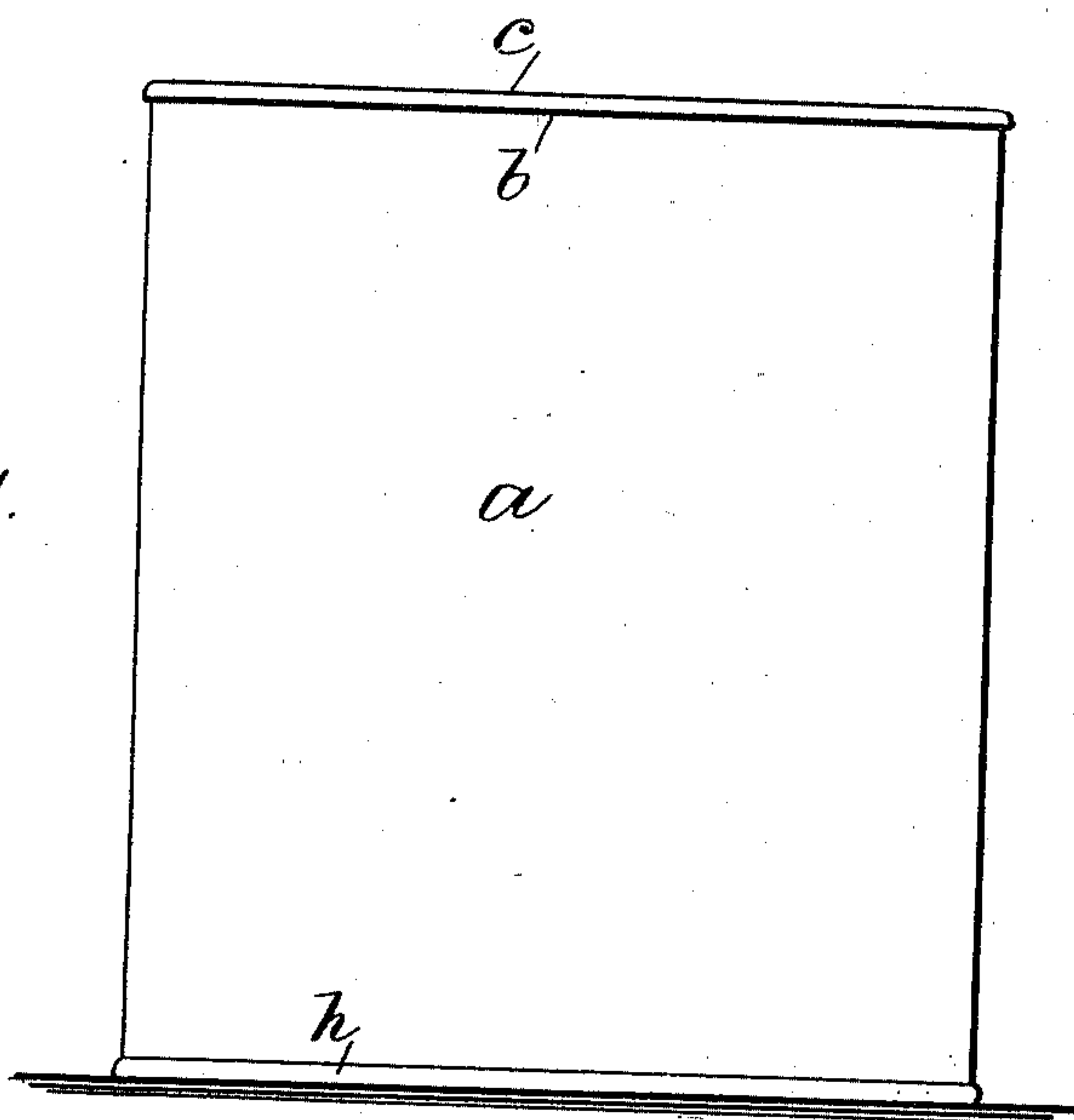


Fig. 1.



Witnesses

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# UNITED STATES PATENT OFFICE.

JAMES M. MUNGIVEN, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF  
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## SHEET-METAL CAN.

SPECIFICATION forming part of Letters Patent No. 670,720, dated March 26, 1901.

Application filed August 20, 1900. Serial No. 27,414. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES M. MUNGIVEN, a citizen of the United States, residing at the borough of Brooklyn, city and State of New York, have invented an Improvement in Sheet-Metal Cans, of which the following is a specification.

My invention relates to sheet-metal cans, and especially to the construction of the can-body and the manner of attaching the cover thereto after the can has received its contents, the object being to connect the cover and body by a joint air and liquid tight without solder.

In carrying out my invention the can-body and the bottom of the can are connected in any ordinary or desirable manner, and the can-body at the upper end is provided with an annular shoulder folded outward and an annular rim substantially parallel with the body of the can and of slightly-greater diameter than the body, the said structure being adapted to receive within the rim and against the shoulder the cover. The cover is of dishing form, with a flat bottom or base and an annular edge flange. The bottom of the cover is not entirely flat, but is provided with a peripheral portion bent downward to the union with the edge flange, so that the angular corner of the cover is adapted to fit snugly into the angular corner between the shoulder and the rim of the can-body. The edge flange of the cover is shorter than the annular rim of the body, and the latter is turned inwardly over the edge flange, and the connected parts are pressed together or crushed downwardly and inwardly to bring the under edge of the shoulder apparently against the can-body and fold the corners of the cover and the body together and downwardly and the turned-over rim of the body against the cover to make a double joint and seal airtight and liquid-tight without solder, the parts, in other words, being entirely mechanically fastened.

In the drawings, Figure 1 is an elevation representing my improved can. Fig. 2 is a broken vertical section at the cover end of the can; and Figs. 3 and 4 are vertical sections through one side of the cover, showing the partial and completed foldings of the cover

and body. Figs. 2, 3, and 4 are of exaggerated size for clearness.

The can-body *a*, of sheet metal, may be of any desired size and is preferably circular, and the bottom *b* may be connected thereto in any desired manner to make a tight joint, said form of connection, however, forming no part of my present invention.

The can-body at the upper open end is made with an annular shoulder *b*, folded outward, and an annular rim *c*, a continuation of the shoulder and of slightly-greater diameter than the body *a*, the rim *c* and the body *a* being in parallel planes.

The cover is of dishing form, with a partially-flat bottom or base *d* and annular flange *e*, the bottom of the cover being formed with a peripheral portion *d'*, bent downward to the union or angular corner with the edge flange *e*, and the cover is adapted to fit snugly within the annular rim *c*, with the angular corner thereof down upon the annular shoulder *b*, so that the angular corner of the cover fits into the angular corner formed by the shoulder *b* and the rim *c* of the body.

The structure of the cover—that is, in the peripheral portion *d'*—insures the angular corners fitting and makes possible the after-bending operations, which of necessity are performed by properly-constructed dies. The edge flange *e* of the cover is shorter than the annular rim *c* of the body, and in connecting the cover and body the upper edge of the annular rim *c* is turned inwardly over the edge flange of the cover, as shown in Fig. 3. In the next bending operation the angular corners of the cover and body are pressed together and the shoulder *b* is crushed downwardly and inwardly toward and approximately against the body *a* of the can, so that the under edge of the shoulder is apparently against the can-body, and the folded-over edge of the rim *c*, together with the outer edge of the flange *e*, are forced inwardly and downwardly toward and approximately against the surface of the cover, thereby making a double joint and seal, as shown in Fig. 4, and forming a perfect joint that is air and liquid tight without solder.

I claim as my invention—

1. The combination with the can-body hav-



ing an annular shoulder folded outwardly and an integral annular rim of slightly-greater diameter than the body extending above the shoulder and between which shoulder and rim  
5 there is an angular corner, of the dishing cover having an upward edge flange and an angular corner adapted to fit within the annular rim of the body, the edge flange of the cover being shorter than the annular rim of  
10 the body, and the body and cover connected by turning inward and downward the edge of the annular rim over the edge flange of the cover, pressing together the angular corners of the cover and body and forcing inwardly  
15 and downwardly the said connected parts to form a double joint and seal, substantially as set forth.

2. The combination with the can-body having an annular shoulder folded outwardly and  
20 an integral annular rim of slightly-greater diameter than the body extending above the shoulder and between which shoulder and rim there is an angular corner, of the dishing cover having an upward edge flange and a  
25 peripheral downwardly-bent portion, and an angular corner adapted to fit within the annular rim of the body, the edge flange of the cover being shorter than the annular rim of

the body, and the body and cover connected by turning inward and downward the edge of  
30 the annular rim over the edge flange of the cover, pressing together the angular corners of the cover and body and forcing inwardly and downwardly the said connected parts and the annular shoulder to form a double joint  
35 and seal, substantially as set forth.

3. The combination with the can-body having an annular shoulder folded outward and an integral annular rim of slightly-greater diameter than the body extending above the  
40 shoulder, and between which shoulder and rim there is an angular corner, of the dishing cover having an upward edge flanged and an angular corner adapted to fit within the annular rim of the body and the body and cover  
45 connected by pressing together the angular corners of the cover and body and forcing inwardly and downwardly the said connected parts to form a double joint and seal, substantially as set forth.  
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Signed by me this 17th day of August, 1900.

JAS. M. MUNGIVEN.

Witnesses:

GEO. T. PINCKNEY,  
S. T. HAVILAND.