F. WEGNER.

CAN BODY AND BLANK THEREFOR.

APPLICATION FILED DEC. 30, 1907.

923,741.

Patented June 1, 1909.

2 SHEETS—SHEET 1.

Fig. 1

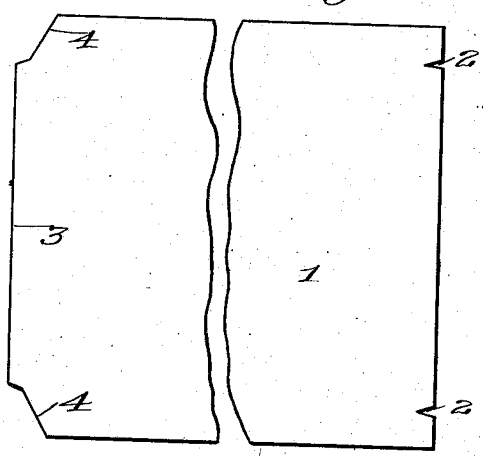


Fig. 2.

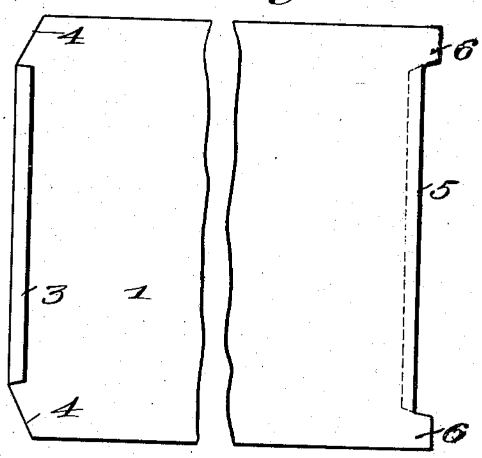


Fig. 3.

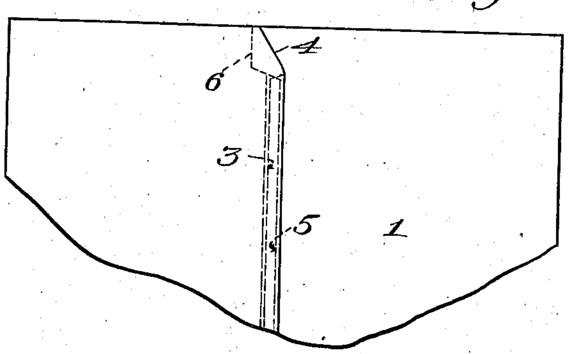
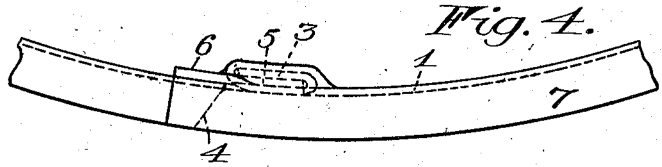


Fig. 4.



Witnesses

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2 SHEETS—SHEET 2.

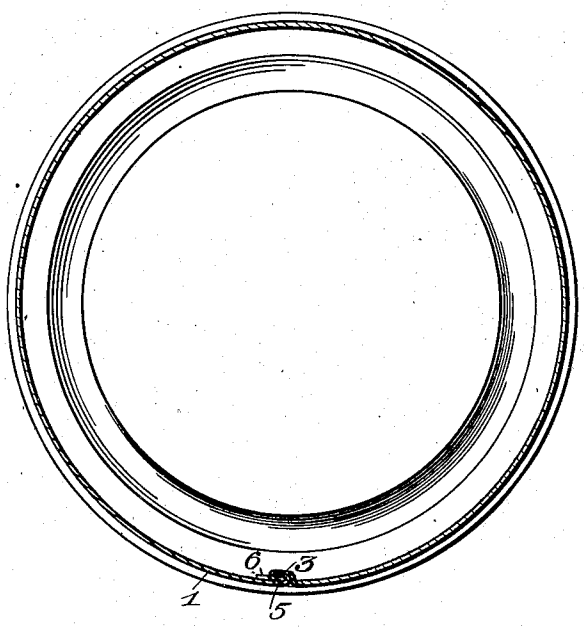

Fig. 5.

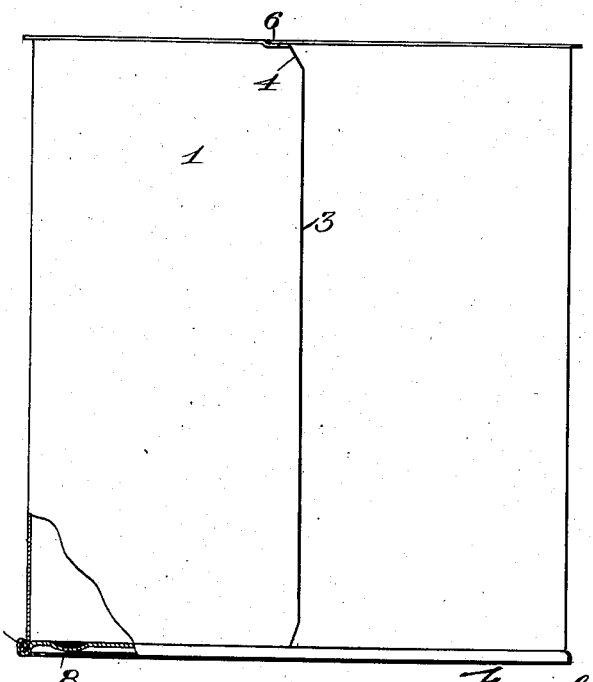

Fig. 6.

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UNITED STATES PATENT OFFICE.

FRED WEGNER, OF FAIRPORT, NEW YORK, ASSIGNOR TO SANITARY CAN COMPANY, OF FAIRPORT, NEW YORK, A CORPORATION OF NEW YORK.

CAN-BODY AND BLANK THEREFOR.

No. 923,741. Specification of Letters Patent. Patented June 1, 1909.

Application filed December 30, 1907. Serial No. 408,517.

To all whom it may concern:

Be it known that I, FRED WEGNER, of Fairport, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Can-Bodies and Blanks Therefor; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of the specification, and to the reference-numerals marked thereon.

The present invention relates to can bodies and blanks therefor of the type in which the heads have a rolled seam connection with the bodies and it has for an object to provide a construction whose body is so formed that leaks at the juncture of the body seam and the heads are practically obviated.

To this and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 illustrates the two end portions of a blank constructed in accordance with this invention; Fig. 2 shows the blank with the seam forming flanges bent to be interlocked; Fig. 3 illustrates one end of a can body with the flanges interlocked; Fig. 4 illustrates an enlarged plan of a portion of the body after the head engaging flange has been formed; Fig. 5 represents a horizontal section of the can body; and Fig. 6 represents an elevation of the can body with one head secured thereto, a portion being shown in section to illustrate the rolled seam.

Similar reference numerals in the several figures indicate similar parts.

Heretofore in the use of sheet metal cans with heads connected to the bodies by rolled seams a great deal of loss has been sustained by reason of leaks at the juncture of the body seam and the heads. The openings are so small in some instances that notwithstanding that the cans are tested during their manufacture, the leaks do not show up until the cans are packed with fruits, vegetables, or the like, thus not only causing the loss of the can to the packer or canner, but also the loss of the goods therein. In this invention practically all leaks are obviated by reducing the metal at the juncture of the body seam and the heads. For this purpose I provide an elongated sheet metal blank 1 which when rolled will make a cylindrical body. One end edge of the blank is provided with two V-shaped notches 2 which are arranged near the ends of the edge, while the other end edge is formed with a flange 3 of a length substantially equal to the distance between the notches 2, chamfers 4 being formed on those portions of the edge beyond the flange 3.

The flange 3 is doubled on the body to provide an inwardly turned flange which is interlocked with an outwardly turned flange 5 formed by doubling outwardly the edge of the body between the notches, thus providing the lips 6. When the flanges are interlocked the lips are overlapped by the chamfered portions and each of the latter at its outer end is nearly coincident with the outer end of the proximate lip 6, as shown in Fig. 3, so that when the body is bent to form annular flanges 7 at its ends for engagement by the heads 8 a reduced amount of metal will be present in the flange at the end of the body seam, thus permitting the heads 8 to be interlocked with the flanges in the manner shown at 9, Fig. 6, without causing excesses of metal at the ends of the body seam.

Cans constructed in accordance with this invention may be manufactured with less expense, as there is less waste, and they will be less expensive to canners because the destruction to their goods from leaks will be practically obviated.

I claim as my invention:

1. A can body blank having one edge provided with two notches, one near each end thereof, and the other edge formed with a flange having a length approximately equal to the distance between the notches on the other edge, and a chamfer arranged beyond each end of the flange.

2. A can body formed from a single blank and having an outwardly turned flange at one end of the blank, an inwardly turned flange at the other end interlocked therewith, lips extending beyond the ends of the outwardly turned flange, chamfers at the ends of the inwardly turned flange overlapping the lips, and outwardly-extending head-engaging annular flanges formed on the end of the body.

FRED WEGNER.

Witnesses:
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