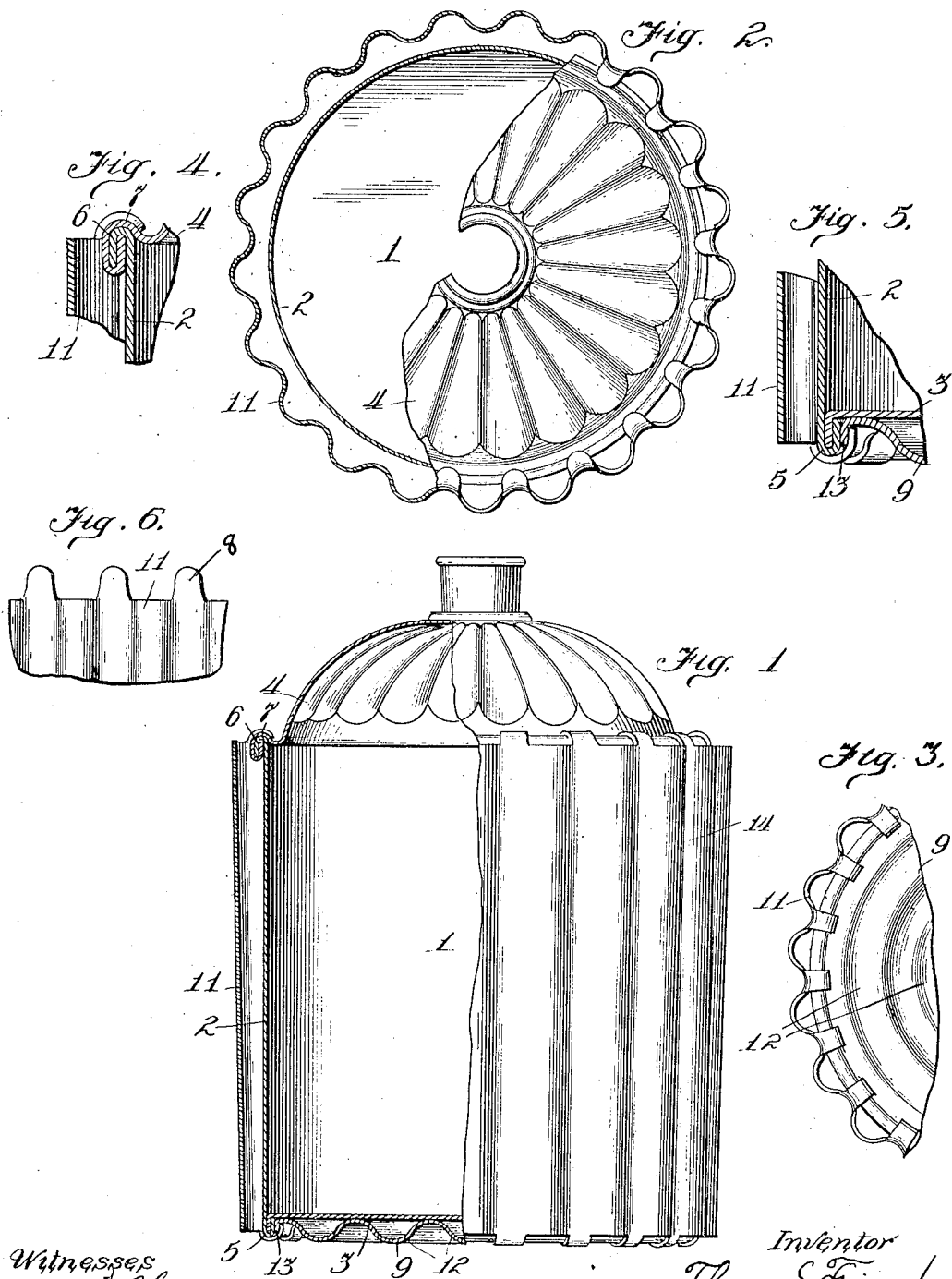


T. S. FRIEND.
 CORRUGATED METAL JACKET.
 APPLICATION FILED FEB. 26, 1908.

926,648.

Patented June 29, 1909.



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UNITED STATES PATENT OFFICE.

THOMAS S. FRIEND, OF CHICAGO, ILLINOIS.

CORRUGATED-METAL JACKET.

No. 928,648.

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To all whom it may concern:

Be it known that I, THOMAS S. FRIEND, a subject of Great Britain, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Corrugated-Metal Jackets, of which the following is a specification.

This invention relates to improvements in corrugated metal jackets, and refers more particularly to a jacket or cover adapted for use with liquid receptacles such as tin cans.

Among the salient objects of the invention are to provide a corrugated metal jacket which is adapted to inclose a can or other receptacle which is usually made of relatively weak material in order to protect the latter against injury in shipping or handling; to provide a jacket in which the blanks may be readily struck out and properly corrugated and shaped before assembling upon the can; to provide in a construction of the character referred to improved means for securing the jacket to the can without soldering or welding, or without the use of bolts, rivets or other separate fastening devices; to provide a simple and economical construction which may be readily adapted for use with receptacles of various shapes and sizes, and in general to provide an improved construction of the character referred to.

The invention will be understood from the following description, reference being had to the accompanying drawings in which—

Figure 1 is a side elevation of a can or liquid receptacle with my improved corrugated jacket, parts being broken away and shown in vertical section. Fig. 2 is a top plan view of Fig. 1, parts of cover being broken away and showing the upper edge of the can and jacket in section. Fig. 3 is a fragmentary bottom plan view of the can shown in Fig. 1. Fig. 4 is an enlarged sectional detail view showing the manner of connecting the upper edge of the jacket to the can. Fig. 5 is a similar view showing the manner of uniting the bottom and lower side of the jacket to the can. Fig. 6 is a fragmentary side elevation of the upper edge of the jacket showing the arrangement of the connecting tongues before they have been bent into place.

Referring to the drawings 1 designates as a whole a tin can or other liquid receptacle which in the present instance is generally cylindrical in shape, comprising a side body

2, bottom 3, and cover 4. At its lower edge the side body 2 is interlocked with the bottom 3 in such a manner as to form an annular down turned flange 5. The upper edge of this side body is similarly interlocked with the top 4 as shown at 6 so as to form a rounded shoulder like portion 7. These cans are ordinarily made of relatively weak material and when full are easily injured in shipping and handling, especially where they are not protected in crates or other similar contrivance.

Describing now the metal jacket proper, it comprises a corrugated bottom 9 and side body 11 adapted to fit closely around and protect the sides and bottom of the can. In forming the bottom 9, the metal is placed upon a suitable die which in one and the same operation strikes out the blank, forms the panels or corrugations 12 and turns down the edge to form an annular flange 13. As shown in Fig. 3 these panels or corrugations form a series of concentric circles. The arrangement of these corrugations or panels is such as to protect the weaker bottom of the can proper against injury from blows or jamming. Describing now the formation of the side body 11, the blank is first struck out and in the same operation it is notched at its respective upper and lower edges so as to form a series of spaced apart tongues 8. This blank is then rolled into the proper shape to fit around the can body, the vertical edges of the blank being united in the usual manner. The forming machine is so made that the same operation which shapes the blank also corrugates the entire surface of the same with the exception of the tongues 8. By reference to Figs. 1 and 2 it will be clearly seen that this corrugated side body effectually prevents injury to the weaker side of the can in the same manner as the corrugated bottom heretofore described.

In assembling this jacket upon the can, the corrugated bottom 9 is inserted in position so that the annular flange 13 lies flush with the similar flange 5 of the can body. The corrugated side body 11 is next slipped over the can and the tongues 8 at the upper and lower edges of the side body are respectively crimped over the annular shoulder 7 and the flanges 5 and 13. In crimping the lower tongues into locking position, the flange 5 will be jammed tightly against the

lower edge of the can body proper, in order that the corrugated bottom may be held rigidly in place. It is to be noted that by reason of the tongues 8, it is not necessary to bend the relatively stiff corrugated portions of the jacket in order to rigidly unite the latter to the can.

I claim as my invention:

1. In combination with a closed can body provided with a down turned annular flange at its bottom and an annular shoulder formed by the inter-locking of the upper end of its side body with its cover, of a metal jacket fitting around said can and comprising a side body provided with a plurality of vertically extending corrugations, a corrugated bottom provided with an annular flange fitting within the said annular flange of the can body proper, tongues formed integrally with the lower edge of the side body of said jacket and extending between the corrugations, said tongues being crimped over said annular flanges and locking the same together, and tongues similarly formed upon the upper edge of the side body of said

jacket and crimped over said annular shoulder.

2. In combination with a closed can body provided with a down turned annular flange at its bottom and an annular shoulder formed at the upper end of its side body, of a metal jacket fitting around said can and comprising a side body provided with a plurality of vertically extending corrugations, and a corrugated jacket bottom supporting the bottom of said can and provided with an annular flange fitting within the down turned flange of the can body proper, tongues formed integrally with the side body of said can and extending between said corrugations, said tongues being crimped over the said annular flanges and locking the same together, and tongues similarly formed upon the upper edges of the side body of said jacket to fit over said annular shoulder.

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Witnesses:

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