

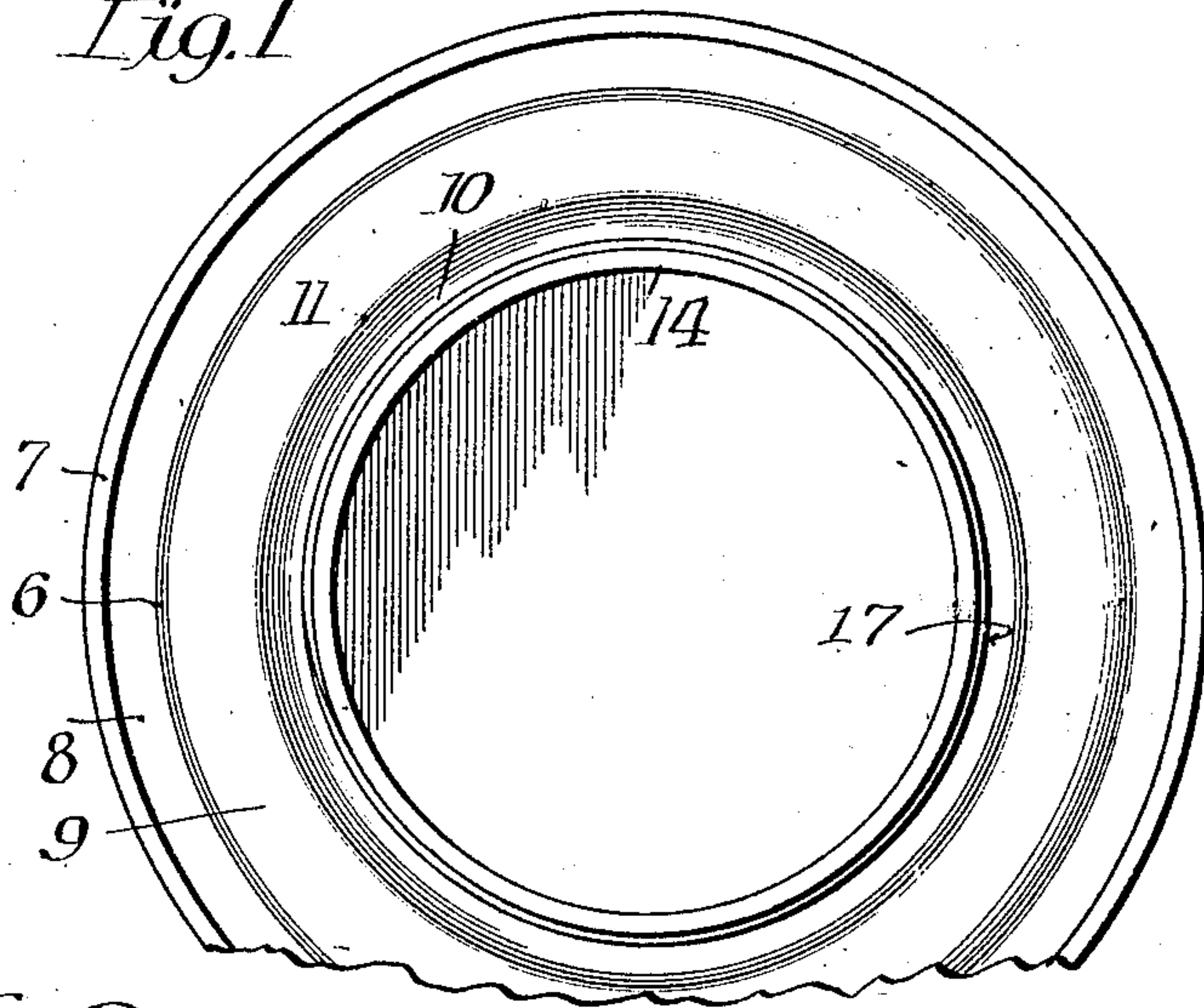
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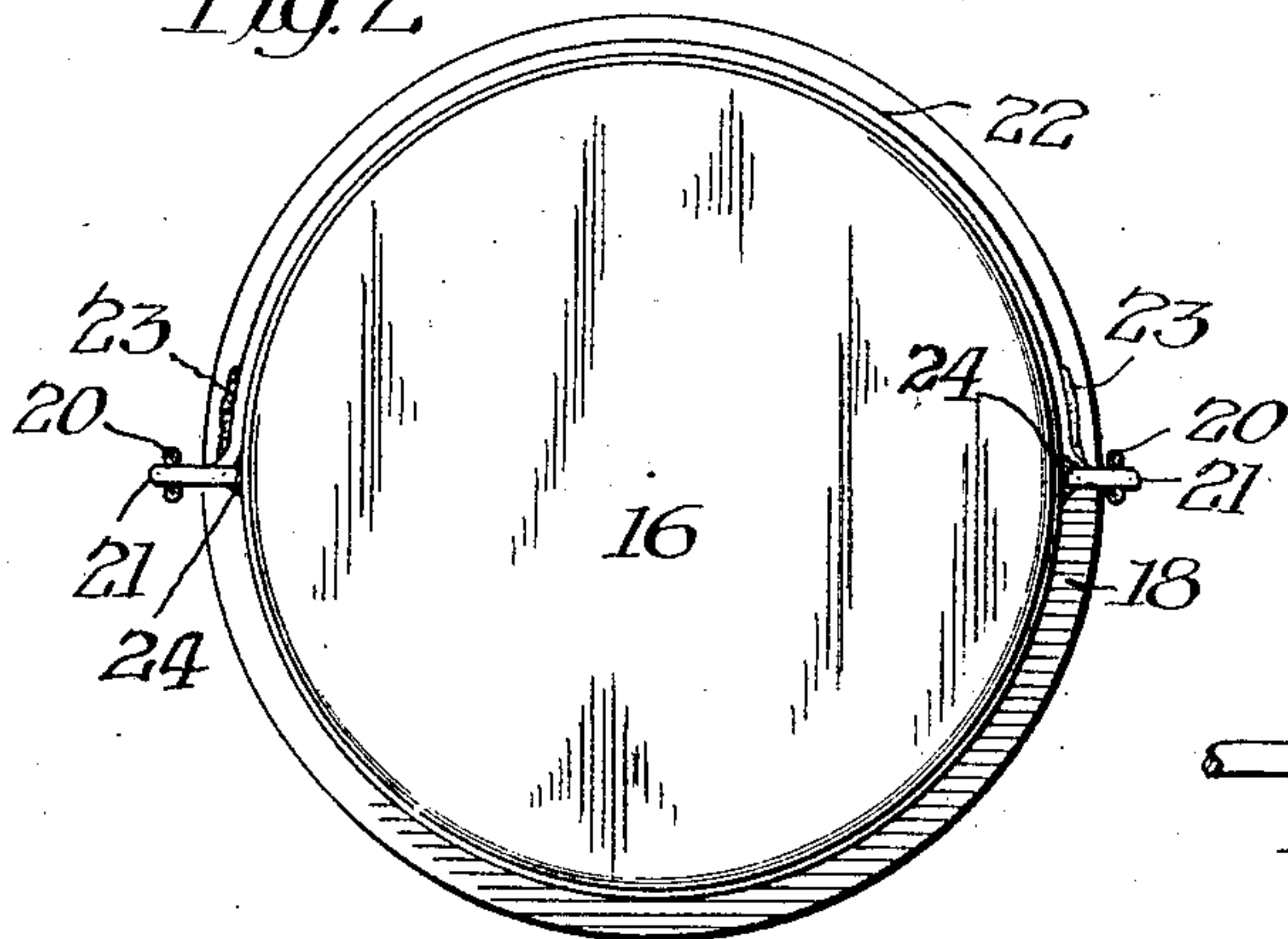
W. HORLICK, JR  
CAN CLOSURE AND SEALING MEANS.

Filed April 3, 1926

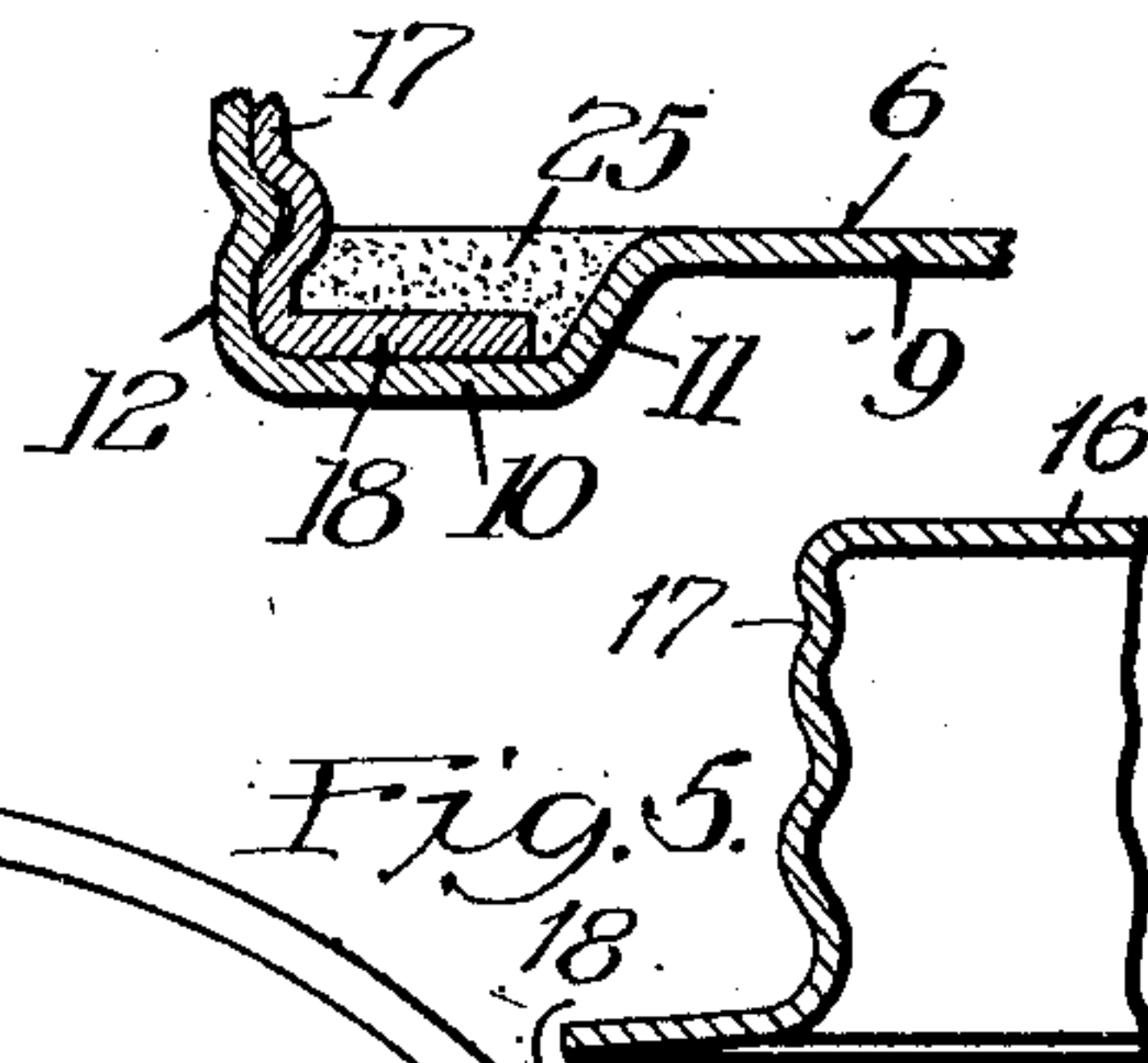
*Fig. 1*



*Fig. 2*



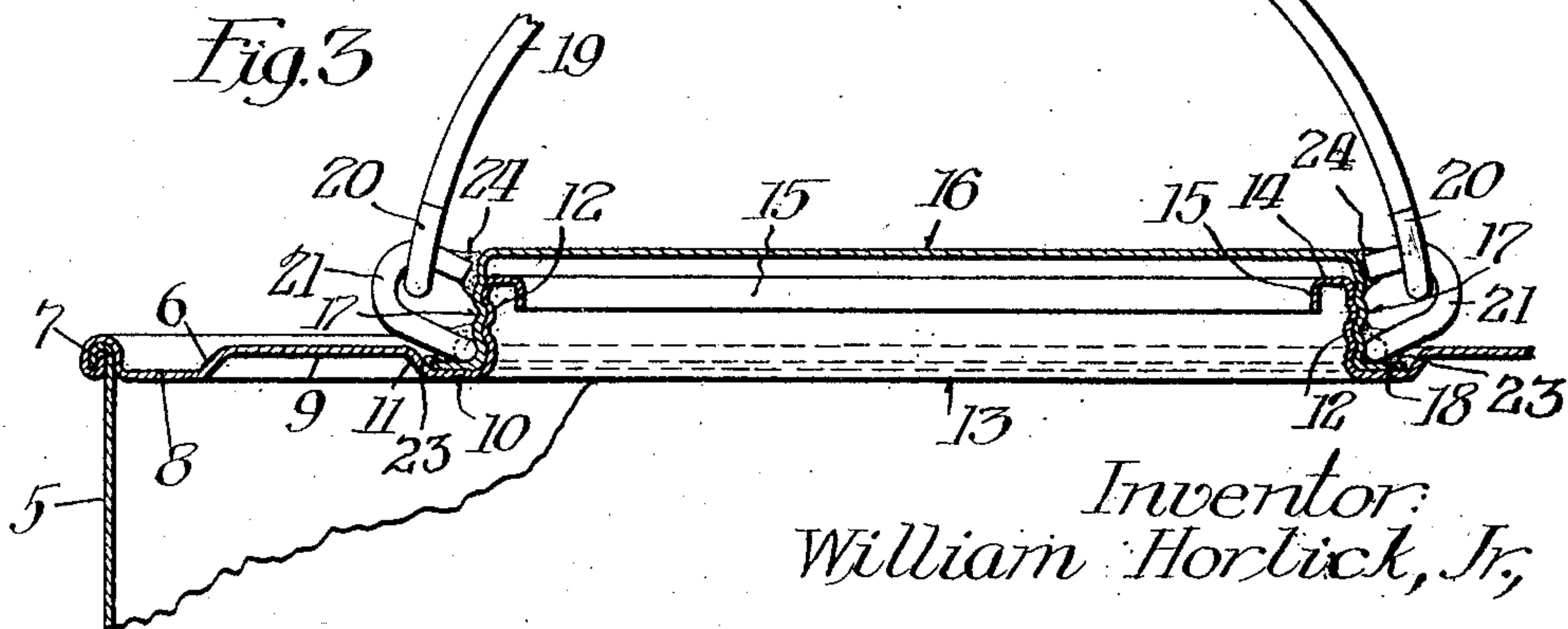
*Fig. 4*



*Fig. 5*



*Fig. 3*



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# UNITED STATES PATENT OFFICE.

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## CAN CLOSURE AND SEALING MEANS.

Application filed April 3, 1926. Serial No. 99,543.

My invention has reference to can construction and more especially to a novel can closure with a bail or handle and novel top construction and sealing means therefor.

5 The object of the invention is to provide a novel can closure and sealing means for cans such as are used for containing malted milk in powdered form, although not restricted to this use and which can be hermetically and  
10 positively sealed against the ingress of moisture; which permits the attachment to the closure of a bail or handle for carrying the can, which bail also facilitates the attachment and removal of the closure or screw cap.  
15 Other and further objects of the invention will be apparent as the description proceeds.

On the drawings:—

20 Fig. 1 is a plan view of a can constructed in accordance with the invention, the cap or closure being removed.

Fig. 2 is a plan view of the screw cap.

Fig. 3 is an enlarged fragmentary sectional view showing the can with the cap applied  
25 to the screw neck thereof.

Fig. 4 is an enlarged fragmentary sectional view showing the sealing construction, and

Fig. 5 is an enlarged fragmentary section of the cover.

30 Referring to the drawings in detail, 5 designates the can, to the upper edge of which a top portion 6 is secured in any suitable manner, as by crimping 7, which in the present instance forms an upstanding flange. The  
35 adjacent portion of the top forms a depressed channel 8 within the crimped edge or flange 7 and the top has an annular raised or breast portion 9 within the depressed portion 8, which serves as a stiffening and reinforcing  
40 element for the top.

Within the raised portion 9, the top is provided with an annular depression or indentation 10 of less depth than the depression 8 and much wider than it is deep, having an inclined or inwardly sloping wall 11, the wall  
45 of the portion 10 being slightly inclined outwardly or inwardly but substantially horizontal, as shown, and terminating at its inner edge in an upstanding screw neck 12 around  
50 the opening 13, the upstanding neck portion 12 being directed or turned inwardly as at 14 and downwardly as at 15 to form a depending flange and also a stiffening rib which

incidentally serves to obviate an exposed or sharp ragged edge which would be likely to  
55 injure a person projecting the hand into the can.

A screw cap or closure 16 is provided for the can to cover the opening 13 and has its threaded flange 17 engaging the threads of  
60 the neck 12. In addition, the screw cap or closure has an annular flange or extension 18 around the same at its lower edge and preferably slightly inclined outwardly so as to be adapted to be received in the annular depression 10 and is slightly flattened down to  
65 snugly fit the same when the screw cap or closure 16 is screwed down. When the screw cap is in position, sealing wax or paraffine is poured into the annular depression over the  
70 flange or extension 18 to positively seal the can against the ingress of air and avoiding the absorption of moisture or of other injurious effect on the contents usually resulting from exposure to air or moisture such as  
75 fermentation, etc.

In order to facilitate the application and removal of the screw cap, a bail or handle 19 is provided, the same having eyes 20 at its ends engaging loops 21 at diametrically opposite sides of the can closure. The loops  
80 21 are preferably formed at the ends of a semicircular section of wire 22 which is soldered around the cap so as to lie in one of the depressions of the screw threads, as indicated at 23, and the loops are bent at right angles to the direction of extent of the wire so as to extend vertically for receiving the eyes 20. The ends of the loops 21 are preferably soldered to the can cap as indicated at  
85 24. In addition to serving as a handle for the can, the bail also permits the cap to be firmly secured in position and easily unscrewed for removing the same. It will be noted from the drawings, especially Figs. 3  
90 and 4, that the flange 18 has its outer edge exposed and that it is preferably disposed below the raised portion 9, so that paraffine, sealing wax, or the like, 25, poured into the depression 10 after the cap is screwed into  
100 position, will cover the flange or extension 18 and its surrounding edge, and will thoroughly seal the can at the closure.

While I have shown and described my invention in a preferred form, I am aware that  
105 various modifications and changes may be



made without departing from the principles of the invention, the scope of which is to be determined from the appended claims.

I claim as my invention:

- 5 1. A can having a lateral wall and a top attached thereto and having an annular depression immediately adjacent the lateral portion, an annular raised portion inwardly thereof with an inwardly sloping inner portion, an annular depressed portion inwardly of the raised portion with its outer portion defined by the inwardly sloping inner portion of the annular raised portion, and a neck projecting upwardly from the last mentioned depressed portion, and a closure en-  
10 gaged with said neck portion and having an outward extension at its bottom edge seated in the last-named depression below the annular raised portion and adapted to receive sealing means thereover.

- 20 2. In a can closure and sealing means, the combination with a can having a breasted top portion with a downwardly and inwardly sloping inner wall and an annular relatively

wide and shallow depression inwardly thereof terminating in an upstanding screw-threaded neck with an angular internal flange extending inwardly and downwardly, of a screw cap engaging said neck and having an outwardly extending bottom flange snugly fitting in the depression and adapted to be sealed therein by wax.

3. In a can closure and sealing means, the combination with a can having a top portion with an inwardly sloping wall and a relatively wide and shallow depression terminating in an upstanding screw-threaded neck, of a screw cap engaging said neck and having an outwardly extending bottom flange fitting in the depression, a strip around and anchored to the cap in the depression on the outwardly extending bottom flange and having vertical end loops extending from the depression, and a bail on the loops and serving for removing the cap as well as a bail for the can.

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