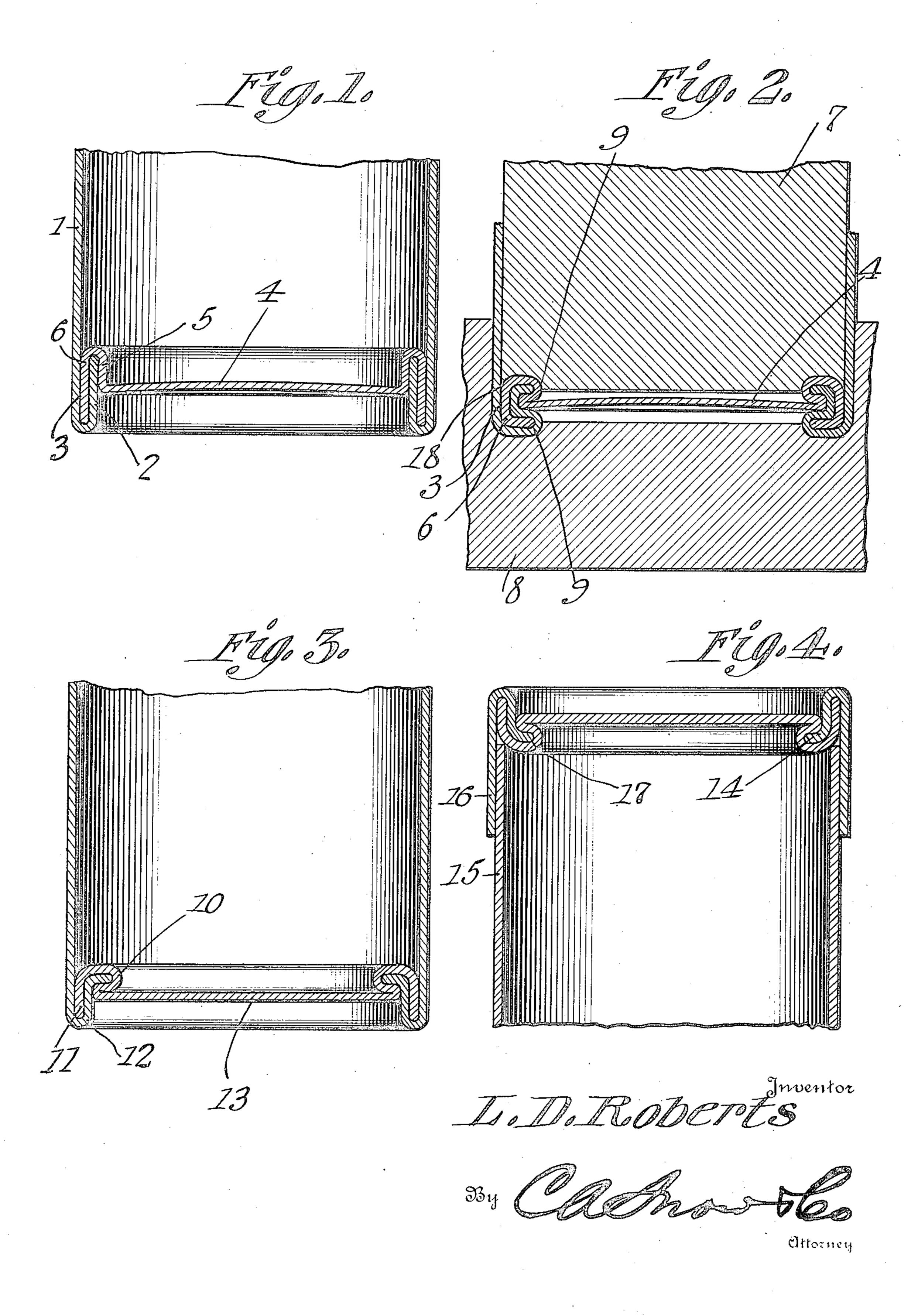
## L. D. ROBERTS

PAPER CAN

Filed July 27 1921



## UNITED STATES PATENT OFFICE.

## LEWIS D. ROBERTS, OF WASHINGTON, DISTRICT OF COLUMBIA.

PAPER CAN.

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To all whom it may concern:

obtained.

25 bottom head and the wall of the container dies will result in the upstanding wall 5 be-

30 view which will appear as the description will thus be formed at the margin of the 35 that, within the scope of what is claimed, interfitting parts will result in a perfect seal

40 ferred form of the invention has been shown. that in order to escape through the seal, the

In said drawings—

the can or container.

Figure 2 is a similar view showing the finished can and dies engaging the same subsequent to the completion of the finishing. In other words the upstanding wall will be 105 50 operation.

Figure 3 is a view similar to Figure 2 without showing the dies and illustrating a finished can in which there is only one lock.

Figure 4 is another view showing the structure of Figure 3 applied to a cover.

Referring to the figures by characters of

reference, 1 designates a container prefer-Be it known that I, Lewis D. Roberts, a ably cylindrical although it is to be undercitizen of the United States, residing at stood that the same can be of any other de-Washington, in the District of Columbia, sired contour. This container is made of co 5 have invented a new and useful Paper Can, paper spirally wound or formed in any other of which the following is a specification. manner and one end of the container is in-This invention relates to paper cans or turned as shown at 2 so as to provide a deep containers, the primary object of the inven- annular channel 3. A head or bottom has tion being to provide a container the head or been indicated at 4 and is also formed of 65 10 bottom of which can be so interlocked with paper stock, this head being provided with the wall as to provide a sealed joint the an annular wall 5 extending from one face parts of which will not gap when left stand- thereof and merging into and spaced from ing but will be held properly assembled an annular flange 6 which extends below the under all climatic conditions. head 4 and is of the same proportions as 70 15 Another object is to provide a structure of the channel 3. Thus when the parts of the this character the parts of which can be as- can are to be assembled the head is inserted sembled and interlocked by means of dies into the container 1 and forced longitudiwhereby a tight and well finished joint is nally therein until the flange 6 becomes seated in the channel 3 so as to completely fill it. 75 Another object is to provide a can or con- This operation can be effected by means of tainer which is simple and durable in con- a die 7 in which event the container 1 will be struction, supports the bottom head out of supported within a die 8. After the parts contact with the surface on which the can is have been brought together as shown in Figmounted, and has a joint or seam between the ure 1 continued relative movement of the 80 which will tighten and become better sealed ing turned inwardly and the lower portion when the bottom head is subjected to the of the channel 3 and that portion of the weight of the contents of the container. flange 6 therein likewise being turned in-With the foregoing and other objects in wardly so that superposed annular beads 9 85 proceeds, the invention resides in the com- head 4, these beads straddling the peripheral bination and arrangement of parts and in portion of said head as shown in Figure 2. the details of construction hereinafter de- Obviously if the paper is suitably treated scribed and claimed, it being understood with paraffin or the like this collapsing of the 90 changes in the precise embodiment of the and lock and by subjecting the parts to suffiinvention shown can be made without de- cient pressure they will be prevented from parting from the spirit of the invention. unfolding when left standing for any con-In the accompanying drawings the pre-siderable length of time. It will be noted 95 liquid contents of the can would have to fol-Figure 1 is a section through the bottom low a tortuous path back and forth between of a paper can or container and showing the the interlocked parts and this action, where relative positions of the parts when said the parts are subjected to pressure and 100 bottom or head is first placed in the body of are treated with paraffin or the like, is impossible.

> If desired and as shown in Figure 3 only the inner portion of the seal may be formed. pressed downwardly to form an annular bead 10 while that portion of the flange 11 and of the channel 12 extending below the head or bottom 13 will remain undisturbed. This structure can also be embodied in the 110 formation of the top of the can as shown at 14 in Figure 4. In this arrangement the

lodged in the annular V-shaped channel 18 thereof. formed between the wall of the container 10 and the bead 9 so that said bead will be pre- wall having an inturned end forming an cause. Furthermore the weight of the con- the periphery of the head, an annular flange tents on the head or bottom tends more integral with the wall and spaced therefrom, 15 securely to bind the parts of the seal and said flange extending into and filling the lock together. Obviously if desired this channel and part of the inturned portion exvex with its central portion raised above the the wall and flange, the inturned portion marginal portion so that the weight of the and the flange and walls being inturned and 20 contents will tend even more tightly to bind constituting annular ribs lapping opposed the parts of the lock together.

What is claimed is:—

1. A paper can or container including a wall having an inturned end forming an annular channel, a head insertable into said inturned end portion, a wall extending from the periphery of the head, an annular flange integral with the wall and spaced therefrom,

end of the container 15 entering the flange said flange extending into and filling the 16 of the cap will wedge between said flange channel and part of the inturned portion 30 and the rounded surface of the rib 17 so as extending into and filling the space between to insure proper sealing action. the wall of the head and its flange, the in-It will be noted that when material, par-turned portion and the flange and wall being ticularly granular material, is placed in inturned and constituting an annular rib the container portions thereof will become lapping one face of the head at the periphery 35

2. A paper can or container including a vented from opening up should the paper annular channel, a head insertable into said stock swell or become distorted from any inturned end portion, a wall extending from 40 bottom or head 4 can be made concavo-con- tending into and filling the space between 45 faces of the head.

> In testimony that I claim the foregoing as 50 my own, I have hereto affixed my signature

in the presence of two witnesses.

LEWIS D. ROBERTS.

Witnesses:

IVY E. SIMPSON, AGNES ROCKELLI.